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**PROVISIONAL SPECIFICATION**

for the invention entitled:

**"Structure"**

The invention is described in the following statement:



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## STRUCTURE

### FIELD OF THE INVENTION

THIS INVENTION relates generally to structural studies of a pro-survival protein. In particular, the present invention relates to the determination of the solution structure of Bcl-w including Bcl-w complexes. The invention also relates to methods of using the structural information to screen for and design compounds that interact with Bcl-w or variants thereof.

Bibliographic details of the publications referred to by author in this specification are collected at the end of the description.

### BACKGROUND OF THE INVENTION

Apoptosis, the physiological process of killing and removing damaged, unwanted or surplus cells during development, tissue homeostasis, or in response to stress or damage signals, is conserved between organisms as diverse as worms and man (Vaux and Korsmeyer, 1999). Since the deregulation of apoptosis has been linked to a number of diseased states, an understanding of how this process is controlled may allow novel ways to treat diseases, either by promoting or by inhibiting apoptosis (Thompson, 1995). For example, loss of myocardial tissues after acute myocardial infarcts may be limited by inhibiting apoptosis in the damaged tissues. Excessive apoptosis is also a feature of neurodegenerative conditions such as Alzheimer's disease, suggesting that drugs preserving neuronal integrity may have a role in delaying the loss of vital neurones. In contrast to excess cell death, insufficient apoptosis is a feature of malignant disease and autoimmunity (Strasser *et al*, 1997). In either condition, persistence of damaged or unwanted cells that should normally be removed can contribute to disease.

In malignancies, mutations affecting cell death regulatory proteins or those that sense cellular damage have been described in various tumours. Bcl-2, the prototypic member of the Bcl-2 family of proteins, was cloned as the result of the t(14:18) chromosomal translocation in human follicular B cell lymphoma, which results in its overexpression (Tsujimoto *et al*, 1985; Cleary *et al*, 1986). Overexpression of Bcl-2, which functions to inhibit apoptosis (Vaux *et al*, 1988), or its functional homologues have also been reported in other tumours. However, mutations to proteins involved in sensing DNA



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damage are much more common in tumours. It is estimated that over half of human cancers have a mutation of the tumour suppressor protein, p53, or mutations affecting this pathway (Lane, 1992). p53 is necessary to elicit the appropriate cellular responses (growth arrest, apoptosis) to most forms of DNA damage. Interestingly, p53 kills cells mainly by a Bcl-2-dependent mechanism, since Bcl-2 overexpression can block most cell deaths induced by p53 (Lowe *et al*, 1993; Strasser *et al*, 1994). Both clinical observations and experiments in mouse models suggest that inhibition of apoptosis (*e.g.*, p53 mutation, Bcl-2 overexpression) (Strasser *et al*, 1990; Adams *et al*, 1992) greatly promote oncogenic transformation caused by mutations that promote cellular proliferation alone (*e.g.*, c-Myc overexpression, p21<sup>ras</sup> mutations). Thus, reversing the process of tumorigenesis by promoting cell death, such as by activating p53 function or by inhibiting Bcl-2 function, may allow novel ways to complement the current treatments for malignancies. Furthermore, most of the cytotoxic treatments currently used to treat malignant diseases work partly by inducing the endogenous cell death machinery (Fisher, 1994), although this has been disputed by others (Brown and Wouters, 1999). For example, radiotherapy and many chemotherapeutic drugs activate apoptotic machinery indirectly by inducing DNA damage. Since the majority of tumours have mutations affecting the p53 pathway, many forms of therapy are significantly blunted because of the frequent loss of p53 function. The resistance of tumour cells to conventional agents provides further impetus to discovering novel cytotoxic drugs that act directly on the cell death machinery.

The effectors of cell death are cysteine proteases of the caspase family that cleave vital cellular substrates after aspartate residues (Thornberry, 1998). The caspases are synthesised as inactive zymogens and are only activated in response to cellular damage, thereby allowing exquisite control of apoptosis during normal tissue functioning in order to prevent inappropriate cell deaths. There are at least two distinct pathways to activate caspases in mammalian cells (Strasser *et al*, 2000). Binding of cognate ligands to some members of the TNF receptor superfamily induce cell death by activating the initiator caspase, caspase-8/FLICE, which is recruited to form oligomers on the receptor by the adaptor protein FADD/MORT-1 (Ashkenazi and Dixit, 1998). Once activated, caspase-8 can cleave downstream effector caspases such as caspases-3, -6, and -7, thereby massively amplifying the process.



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A second pathway to caspase activation is that controlled by the Bcl-2 family of proteins (Adams and Cory, 2001). Overexpression of Bcl-2 can block many forms of physiologically (*e.g.*, developmentally programmed cell deaths, death due to growth factor deprivation) and experimentally applied damage signals (*e.g.*, cellular stress, radiation, most chemotherapeutic drugs). Bcl-2 controls the activation of the initiator caspase, caspase-9, by the adaptor protein Apaf-1, but this does not appear to be the critical or the sole molecule regulated by Bcl-2 (Moriishi *et al*, 1999; Conus *et al*, 2000; Hausmann *et al*, 2000; Haraguchi *et al*, 2000; Marsden *et al.*, 2002). In the nematode *C. elegans*, the Bcl-2 homologue CED-9 functions by sequestering the activity of the adaptor protein CED-4 which is required to activate the caspase CED-3 (Spector *et al*, 1997; Chinnaiyan *et al*, 1997; Wu *et al*, 1997; Yang *et al*, 1998; Chen *et al*, 2000). However, a true mammalian homologue of CED-4 has not been discovered to date. The machinery is also more complex in mammals which express a number of structural and functional homologues of Bcl-2, namely Bcl-x<sub>L</sub>, Bcl-w, Mcl-1 and A1 (Adams and Cory, 1998) (Cory and Adams, 2002). These pro-survival proteins are structurally similar, generally containing four conserved Bcl-2 homology domains (BH1-4), as well as a C-terminal hydrophobic region, promoting cell survival until antagonised by a family of distantly related proteins, the BH3-only proteins.

The BH3-only proteins are so-called because they share with each other, and with the other members of the Bcl-2 family of proteins, only the short BH3 domain (Huang and Strasser, 2000). This short domain forms an  $\alpha$ -helical region, the hydrophobic face of which binds onto a hydrophobic surface cleft present on pro-survival Bcl-2 (Sattler *et al*, 1997; Petros *et al*, 2000). The BH3-only proteins probably function to sense cellular damage to critical cellular structures or metabolic process, and are then unleashed to initiate cell death by binding to and neutralising Bcl-2 (Huang and Strasser, 2000; Bouillet *et al*, 1999). Normally, the BH3-only proteins are kept inert by transcriptional or translational mechanisms, thereby preventing inappropriate cell deaths. Recently, two BH3-only proteins that are transcriptional targets of the tumour suppressor protein p53 have been described, namely Noxa (Oda *et al*, 2000) and Puma/Bbc3 (Yu *et al*, 2001; Nakano and Wousden, 2001; Han *et al*, 2001). These proteins are thus good candidates to mediate cell death induced by p53 activation (Vousden, 2000). Some other BH3-only proteins are controlled instead by post-translational mechanisms. In particular, two are



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sequestered to the cell's cytoskeletal network, Bim to the microtubules and Bmf to the actin cytoskeleton (Puthalakath *et al.*, 1999; Puthalakath *et al.*, 2001). Damage signals that impinge upon these cytoskeletal structures will activate Bim or Bmf freeing them to bind to pro-survival Bcl-2 located on the cytoplasmic face of the outer mitochondrial membrane as well as those of the nucleus and endoplasmic reticulum.

Recently it has been shown that the killing by the BH3-only proteins is dependent on the activity of a third family of Bcl-2-related proteins, namely the Bax sub-family (Zong *et al.*, 2001; Cheng *et al.*, 2001). Although these proteins bear three of the four homology domains and are structurally very similar to the pro-survival proteins (Suzuki *et al.*, 2001), Bax, Bak and Bok/Mtd function instead to promote cell death. Biochemically, damage signals cause these proteins to aggregate and such oligomers may function to cause damage to mitochondrial membranes (Eskes *et al.*, 2000; Desagher *et al.*, 1999; Antonsson *et al.*, 2001; Mikhailov *et al.*, 2001; Wei *et al.*, 2001; Jürgensmeier *et al.*, 1998), thereby causing the release of mitochondrial pro-apoptogenic factors such as Smac/Diablo (Verhagen *et al.*, 2000; Du *et al.*, 2000) and cytochrome *c*, which is essential for the activation of caspase-9 by Apaf-1 (Kluck *et al.*, 1997; Yang *et al.*, 1997; Zou *et al.*, 1997; Li *et al.*, 1997). Since killing by BH3-only proteins depend on Bax and Bak in fibroblasts, their physiological role may be to activate Bax and Bak (Zong *et al.*, 2001; Korsmeyer *et al.*, 2000). In such a model, the pro-survival Bcl-2 proteins function merely to sequester the BH3-only proteins until such time as when there is insufficient capacity to do so. However, there are few reports of direct binding of the BH3-only proteins to Bax and Bak and even that in the case of the BH3-only protein Bid appears weak (Eskes *et al.*, 2000; Wei *et al.*, 2001; Wang *et al.*, 1996). To date there are no experiments to directly compare the binding of BH3-only proteins with pro-survival Bcl-2 and to pro-apoptotic Bax.

In addition to the tenuous biochemical evidence for the direct binding of BH3-only proteins to Bax-like proteins, careful analyses of the available genetic data also suggests that pro-survival Bcl-2 rather than pro-apoptotic Bax is the direct target of BH3-only proteins. In the nematode *C. elegans*, all the killing induced by the BH3-only protein EGL-1 is dependent on the ability of EGL-1 to bind to and neutralise nematode Bcl-2, CED-9 (Conradt *et al.*, 1998; Parrish *et al.*, 2000). The situation is somewhat more complex in mammals because of the functional redundancy in each class of proteins. Instead of a single BH3-only protein (EGL-1) and a single Bcl-2 homologue (CED-9),



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mammals express multiple proteins of each sub-class making direct comparison with the nematode difficult. Furthermore, nematodes do not appear to express Bax-like proteins. However, if the Bcl-2-like proteins function merely to sequester BH3-only proteins, then the amount of pro-survival Bcl-2-like proteins in any cell type must be limiting. It is  
5 therefore surprising that mice lacking a single allele of the *bcl-2* (Veis *et al.*, 1993; Nakayama *et al.*, 1994; Kamada *et al.*, 1995), *bcl-x* (Motoyama *et al.*, 1995; Motoyama *et al.*, 1999) or *bcl-w* (Ross *et al.*, 1998; Print *et al.*, 1998) genes are normal whereas the homozygous knock-out mice all have striking phenotypes in the cell types where these genes play a crucial role. This suggests that the pro-survival Bcl-2-like proteins are not  
10 limiting; instead analysis of mice lacking the BH3-only protein Bim suggest that this class of proteins is limiting (Bouillet *et al.*, 1999; Bouillet *et al.*, 2001). Taken together, the available data would suggest that BH3-only proteins directly bind to Bcl-2 and it is by neutralising Bcl-2 that BH3-only proteins can activate Bax-like proteins.

Thus, agents that directly mimic the BH3-only proteins may induce cell death and  
15 may, therefore, be of value therapeutically. As Bcl-2 controls the critical point that determines a cell's fate, this class of proteins represent an attractive target for drug design. In particular, since many of the oncogenic mutations, such as those to p53 results in defects in sensing cellular damage that would normally result in cell death by a Bcl-2-dependent mechanism, directly targeting Bcl-2 and its homologues may circumvent such mutations.  
20 This may also permit an alternative route to overcome tumour resistance to current treatments.

A general approach to designing drugs that are selective for a target protein is to determine how a putative drug interacts with the three dimensional structure of that protein. For this reason it is useful to determine the three dimensional structure  
25 (coordinates) of a target protein and preferably the target protein in complex with a cognate ligand. From the latter structure, one can determine both the shape of the protein's binding pocket when bound to the ligand, as well as the amino acid residues that are capable of close contact with the ligand. By having knowledge of the shape and amino acid residues in the binding pocket, one may design new ligands that will interact favourably with the  
30 protein. With such structural information, available computational methods may be used to predict the strength of the ligand-binding interaction. Such methods thus enable the design



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of drugs (e.g., agonists or antagonists) that bind strongly, as well as selectively to the target protein.

Accordingly, knowledge of the three-dimensional structure of Bcl-2 proteins and its homologues would be useful in facilitating the design of antagonists of these proteins, which, in turn, are expected to have therapeutic utility. In this regard, solution structures of Bcl-x<sub>L</sub> (Muchmore *et al.*, 1996), Bcl-2 (Petros *et al.*, 2001), and the Kaposi Sarcoma Herpes Virus (KSHV) Bcl-2 homologue (Huang *et al.*, 2002), reveal that the BH1-3 domains are in close proximity to each other and form a hydrophobic groove that is the docking site for BH3-only proteins (Petros *et al.*, 2000; Sattler *et al.*, 1997). However, in contrast to the structures of C-terminally truncated Bcl-x<sub>L</sub> or Bcl-2, the hydrophobic groove formed by the BH1-3 domains in Bax is occluded by its C-terminus. Translocation of Bax from the cytosol to intracellular membranes, particularly the outer mitochondrial membrane (Nechushtan *et al.*, 1999; Nechushtan *et al.*, 2001), is an early step in its damage signal induced activation and exposure of the hydrophobic C-terminus may be important to this process.

Although pro-survival Bcl-w is functionally indistinguishable from Bcl-2 and Bcl-x<sub>L</sub> (Gibson *et al.*, 1996; O'Reilly *et al.*, 2001), it appears to be located exclusively on the outer mitochondrial membrane, whereas a significant proportion of Bcl-2 (~90%) (Krajewski *et al.*, 1993; Lithgow *et al.*, 1994) and Bcl-x<sub>L</sub> (~50%) (Gonzalez-Garcia *et al.*, 1994; Hsu *et al.*, 1997) is present on the outer nuclear and contiguous endoplasmic membranes. While associated with mitochondria in healthy cells, Bcl-w is only weakly attached to the membranes. However, binding of a BH3-only protein, such as Bim activated by death signals, triggers tight membrane association of Bcl-w in dying cells. A likely explanation for the tighter membrane association upon binding of a BH3-only protein is that a conformational change occurs, exposing the C-terminus of Bcl-w, thereby allowing it to interact with the mitochondrial membrane. However, no such change was apparent from the structures of C-terminally truncated Bcl-x<sub>L</sub> in complex with either Bak or Bad BH3 peptides (Petros *et al.*, 2000; Sattler *et al.*, 1997). Instead, the hydrophobic C-terminal residues that are present are not well structured and make no contacts with the body of the protein. Furthermore, it appears that the BH3-binding groove on pro-survival molecules pre-exists and ligand binding does not cause major conformational alteration.



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## SUMMARY OF THE INVENTION

The present invention is predicated in part on the three-dimensional structure of a Bcl-w derivative and of certain Bcl-w-ligand complexes and more specifically, on their solution structures, as determined using spectroscopy and various computer modelling techniques. The key structural features of Bcl-w revealed thereby, particularly the shape, architecture and physicochemical properties of the active site in which BH3-only proteins bind, are useful for identifying, selecting or designing agents that are capable of inhibiting or potentiating at least one biological activity of Bcl-w and in solving the structures of other proteins with similar structures, as described hereafter.

Thus, in one aspect of the present invention, there is provided a solution comprising a molecule or molecular complex that comprises a Bcl-w active site as herein defined. Preferably, the molecule or molecular complex further comprises the C-terminal region of Bcl-w, which suitably comprises the C-terminal helix ( $\alpha 9$ , residues 157-173) and extended region (residues 174-183) of Bcl-w.

Suitably, the molecule or molecular complex comprises a polypeptide that is distinguished from Bcl-w by the deletion of at least one amino acid at the C-terminus of Bcl-w. In one embodiment of this type, the polypeptide is distinguished from Bcl-w by the deletion of at least five amino acid residues, and more preferably by 10 amino acid residues, from the C-terminus of Bcl-w.

Preferably, the polypeptide is further distinguished from Bcl-w by the substitution of at least one hydrophobic amino acid with a charged amino acid. In a preferred embodiment of this type, the hydrophobic amino acid is Ala128 and the charged amino acid is glutamate or modified form thereof.

In an especially preferred embodiment, the polypeptide comprises the sequence set forth in SEQ ID NO:2, which defines a Bcl-w derivative that lacks the last 10 amino acid residues of Bcl-w and that has Ala128 substituted with a glutamate residue or modified form thereof. The three dimensional solution structure of this polypeptide, hereafter referred to as Bcl-w $\Delta$ C10, is provided by the relative atomic structural coordinates of TABLE 1, as obtained from spectroscopy data.



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In other aspects, the present invention extends to polynucleotides that encode the polypeptide as broadly described above, to vectors comprising those polynucleotides and to hosts cells containing such vectors.

The solution coordinates of Bcl-w $\Delta$ C10 or portions thereof (such as the Bcl-w active site as herein defined), as provided by this invention may be stored in data store  
5 such as in a machine-readable form on a machine-readable storage medium, *e.g.* a computer hard drive, diskette, DAT tape, etc., for display as a three-dimensional shape or for other uses involving computer-assisted manipulation of, or computation based on, the structural coordinates or the three-dimensional structures they define. By way of example,  
10 the data defining the three dimensional structure of a Bcl-w derivative as set forth in TABLE 1 may be stored in a machine-readable storage medium, and may be displayed as a graphical three-dimensional representation of the relevant structural coordinates, typically using a computer capable of reading the data from said storage medium and programmed with instructions for creating the representation from such data. Accordingly, the present  
15 invention embraces a machine, such as a computer, programmed in memory with the coordinates of a Bcl-w derivative or portions thereof, together with a program capable of converting the coordinates into a three dimensional graphical representation of the structural coordinates on a display connected to the machine. A machine having a memory containing such data aids in the rational design or selection of agonists or antagonists of  
20 Bcl-w binding or activity, including the evaluation of the ability of a particular chemical entity to favourably associate with Bcl-w as disclosed herein, as well as in the modelling of compounds, proteins, complexes, etc. related by structural or sequence homology to Bcl-w.

Thus, in yet another aspect of the present invention, there is provided a data store  
25 comprising data representing the structure coordinates of Bcl-w amino acid residues and which are capable of being used by a computer system to generate a three-dimensional representation of a molecule or molecular complex comprising a Bcl-w active site defined by the structure coordinates of at least three Bcl-w amino acid residues selected from Arg59, Asp63, Leu64, Gln67, Phe79, Val82, Val102 and Leu106 as set forth in TABLE 1,  
30 or a variant of the molecule or molecular complex, wherein the variant comprises an active site that has a root mean square deviation from the C $\alpha$  atoms of the amino acid residues defining the Bcl-w active site of not more than 1.1 Å.



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Preferably, the active site is further defined by the structure coordinates of at least three Bcl-w amino acid residues selected from Glu52, Arg56, Arg58, Asp63, Glu85, Arg95 and Lys113 as set forth in TABLE 1.

In a preferred embodiment, the active site is defined by the structure coordinates of at least three Bcl-w amino acid residues, which are within 5 Å of the C-terminal region of Bcl-w, including but not limited to, Gln44, Ala45, Ala48, Ala49, Gly50, Glu52, Phe53, Arg56, Phe57, Arg58, Arg59, Asp63, Leu64, Ala66, Gln67, His69, Val70, Arg78, Phe79, Gln81, Val82, Ser83, Glu85, Leu86, Phe87, Gln88, Gly89, Gly90, Pro91, Asn92, Trp93, Gly94, Arg95, Val97, Phe99, Phe102, Leu106, Phe147, Thr148, Ala149, Leu150, Tyr151 and Gly152, as set forth in TABLE 1.

In another preferred embodiment, the active site is defined by the structure coordinates of at least three Bcl-w amino acid residues, which are within 8 Å of the C-terminal region of Bcl-w, including but not limited to, Gln44, Ala45, Met46, Arg47, Ala48, Ala49, Gly50, Asp51, Glu52, Phe53, Glu54, Thr55, Arg56, Phe57, Arg58, Arg59, Thr60, Ser62, Asp63, Leu64, Ala65, Ala66, Gln67, Leu68, His69, Val70, Thr71, Ala75, Gln76, Gln77, Arg78, Phe79, Thr80, Gln81, Val82, Ser83, Asp84, Glu85, Leu86, Phe87, Gln88, Gly89, Gly90, Pro91, Asn92, Trp93, Gly94, Arg95, Leu96, Val97, Ala98, Phe99, Phe102, Gly103, Leu106, Trp137, Ser141, Glu146, Phe147, Thr148, Ala149, Leu150, Tyr151 and Gly152, as set forth in TABLE 1.

In another aspect, the invention provides a computer system having data representing structural coordinates of Bcl-w amino acid residues, the computer system being adapted to generate, on the basis of the data, a three-dimensional representation of a molecule or molecular complex comprising a Bcl-w active site as defined above, or a variant of the molecule or molecular complex, wherein the variant comprises an active site that has a root mean square deviation from the C $\alpha$  atoms of the amino acid residues defining the Bcl-w active site of not more than 1.1 Å.

In yet another aspect, the invention provides a computer system for producing a three-dimensional representation of a molecule or molecular complex, the computer system comprising:

- (a) a data store including data representing the structure coordinates of Bcl-w amino acid residues defining a Bcl-w active site of the present invention, or structural



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coordinates having a root mean square deviation from the C $\alpha$  atoms of those residues of not more than 1.1 Å;

(b) a processing means for processing the data to generate a three-dimensional representation of a molecule or molecular complex comprising the Bcl-w active site or similarly shaped homologous active site for display; and

(c) a display means for displaying the three-dimensional representation.

In still another aspect, the invention provides an analysis method, executed by a computer system, for evaluating the ability of a chemical entity to associate with a molecule or molecular complex comprising an active site, the method comprising the steps of:

(a) generating a model of the active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å;

(b) performing a fitting operation between the chemical entity and the model of the active site; and

(c) quantifying the association between the chemical entity and the active site model, based on the output of the fitting operation.

In a further aspect of the invention, there is provided an analysis method, executed by a computer system, for comparing the ability of a chemical entity to associate with a first molecule or molecular complex comprising a first active site and the ability of the chemical entity to associate with a second molecule or molecular complex comprising a second active site, the method comprising the steps of:

(a) generating a model of the first active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å;

(b) performing a first fitting operation between the chemical entity and the model of the first active site;

(c) quantifying the association between the chemical entity and the first active site model, based on the output of the first fitting operation;



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(d) performing a second fitting operation between the chemical entity and a model of the second active site;

(e) quantifying the association between the chemical entity and the second active site model, based on the output of the second fitting operation; and

5 (f) comparing the respective associations of the chemical entity with the first active site model and with the second active site model.

In one embodiment of this type, the second molecule or molecular complex comprises an active site of another pro-survival protein such as but not limited to Bcl-2, Bcl-x<sub>L</sub>, Mcl-1 and A1, or variant thereof.

10 In yet a further aspect of the invention, there is provided an analysis method, executed by a computer system, for identifying a chemical entity that associates with both a first molecule or molecular complex comprising a first active site and a second molecule or molecular complex comprising a second active site, the method comprising the steps of:

15 (a) generating a model of the first active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å;

(b) performing a fitting operation between the chemical entity and the model of the first active site;

20 (c) quantifying the association between the chemical entity and the first active site model, based on the output of the first fitting operation;

(d) performing a second fitting operation between the chemical entity and a model of the second active site;

25 (e) quantifying the association between the chemical entity and the second active site model, based on the output of the second fitting operation; and

(f) comparing the respective associations of the chemical entity with the first active site model and with the second active site model to determine whether the chemical entity associates individually with both the first molecule or molecular complex and the second molecule or molecular complex.

30 In still a further aspect of the invention, there is provided an analysis method, executed by a computer system, for identifying a chemical entity that associates more favourably with a first molecule or molecular complex comprising a first active site than



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with a second molecule or molecular complex comprising a second active site, the method comprising the steps of:

5 (a) generating a model of the first active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å;

(b) performing a fitting operation between the chemical entity and the model of the first active site;

10 (c) quantifying the association between the chemical entity and the first active site model, based on the output of the first fitting operation;

(d) performing a second fitting operation between the chemical entity and a model of the second active site;

(e) quantifying the association between the chemical entity and the second active site model, based on the output of the second fitting operation; and

15 (f) comparing the respective associations of the chemical entity with the first active site model and with the second active site model to determine whether the chemical entity associates more favourably with the first molecule or molecular complex than with the second molecule or molecular complex.

20 In still a further aspect, the invention encompasses a method for identifying a potential antagonist of a molecule comprising a Bcl-w-like active site, comprising the steps of:

25 (a) generating a three-dimensional structure of the molecule comprising the active site using the atomic coordinates of at least three Bcl-w amino acid residues selected from Arg59, Asp63, Leu64, Gln67, Phe79, Val82, Val102 and Leu106 as set forth in TABLE 1  $\pm$  a root mean square deviation from the C $\alpha$  atoms of those residues of not more than 1.1 Å;

(b) employing the three-dimensional structure to identify, design or select the potential antagonist;

(c) synthesising or otherwise obtaining the antagonist; and

30 (d) contacting the antagonist with the molecule to determine the ability of the potential antagonist to interact with said molecule.



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In a preferred embodiment of this type, the three-dimensional structure of the molecule comprising the active site is generated further using structure coordinates of at least three Bcl-w amino acid residues selected from Glu52, Arg56, Arg58, Asp63, Glu85, Arg95 and Lys113 as set forth in TABLE 1  $\pm$  a root mean square deviation from the C $\alpha$  atoms of those residues of not more than 1.1 Å.

In another preferred embodiment of this type, the three-dimensional structure of the molecule comprising the active site is generated further using structure coordinates of at least three Bcl-w amino acid residues, which are within 5 Å of the C-terminal region of Bcl-w, as for example defined above.

In yet another preferred embodiment of this type, the three-dimensional structure of the molecule comprising the active site is generated further using structure coordinates of at least three Bcl-w amino acid residues, which are within 8 Å of the C-terminal region of Bcl-w, as for example defined above.

In an even more preferred embodiment, the three-dimensional structure of the molecule comprising the active site is created using the structure coordinates of all the Bcl-w amino acid residues as set forth in TABLE 1  $\pm$  a root mean square deviation from the C $\alpha$  atoms of those residues of not more than 1.1 Å.

The antagonist may be selected by screening an appropriate database, may be designed *de novo* by analysing the steric configurations and charge potentials of an empty Bcl-w active site in conjunction with the appropriate software programs, or may be designed using characteristics of known antagonists to create "hybrid" antagonists. The antagonist may then be contacted with Bcl-w, or a Bcl-w derivative, alone (using Bcl-w or a molecule comprising a Bcl-w active site such as Bcl-w $\Delta$ C10), or in the presence of a BH3 ligand such as Bim BH3 as described *infra*, and the effect of the antagonist on Bcl-w or Bcl-w derivative alone or binding between Bcl-w and the BH3 ligand may be assessed. It is also within the confines of the present invention that a potential antagonist may be designed or selected by identifying chemical entities or fragments capable of associating with Bcl-w; and assembling the identified chemical entities or fragments into a single molecule to provide the structure of the potential inhibitor.

In still yet another aspect, the present invention provides agents or antagonists designed or selected using the methods disclosed herein.



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A further aspect of the present invention provides a method for determining at least a portion of the three-dimensional structure of other molecules or molecular complexes which contain at least some features that are structurally similar to Bcl-w by using at least some of the structural coordinates obtained for Bcl-w. This method

5 comprises the steps of first obtaining crystals or a solution of the molecule or molecular complex whose structure is unknown, and then generating X-ray diffraction data from the crystallised molecule or molecular complex and/or generating NMR data from the solution of the molecule or molecular complex. The generated diffraction or spectroscopy data from the molecule or molecular complex can then be compared with the solution coordinates or

10 three dimensional structure of Bcl-w derivative as disclosed herein, and the three dimensional structure of the unknown molecule or molecular complex conformed to the Bcl-w derivative structure using standard techniques such as molecular replacement analysis, 2D, 3D and 4D isotope filtering, editing and triple resonance NMR techniques, and computer homology modelling. Alternatively, a three dimensional model of the

15 unknown molecule may be generated by generating a sequence alignment between Bcl-w derivative and the unknown molecule, based on any or all of amino acid sequence identity, secondary structure elements or tertiary folds, and then generating by computer modelling a three dimensional structure for the molecule using the three dimensional structure of, and sequence alignment with, the Bcl-w derivative.



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## BRIEF DESCRIPTION OF THE DRAWINGS

**Figure 1** is a diagrammatic representation showing the sequence and structure of Bcl-w. Figure 1A illustrates a stereoview of the backbone (N, C $\alpha$ , C) superposition of the 20 NMR derived structures of Bcl-w $\Delta$ C10 (residues 8-183). Aromatic side chains are shown in different colours: Trp (green), Phe (red), His (cyan) and Tyr (yellow). The region of extended structure at the C-terminus is shown in purple. Figure 1B is a ribbon diagram of the structure closest to the mean (residues 8-183). The helices are indicated in different colours and are labelled. The view on the left has the same orientation as Figure 1A while the middle view has been rotated 180° about the vertical axis and the right view 90° about the horizontal axis. Figure 1C shows a structure-based sequence alignment of Bcl-w, Bcl-x<sub>L</sub>, Bcl-2 and Bax. The Bcl-2 homology (BH) domains are indicated by the bars above the sequences and the limits of the secondary structure are depicted by the coloured boxes within the sequence and named ( $\alpha$ 1 –  $\alpha$ 9) beneath them. Residue numbers above the sequences refer to Bcl-w. \* residues of Bcl-w whose HN protons are in fast exchange with the solvent.

**Figure 2** is a diagrammatic representation showing the hydrophobic binding grooves in Bcl-2 family members. Figure 2A is a close-up view of the C-terminal residues of Bcl-w. Residues 8-152 are shown as a surface with the side chains of basic, acidic and hydrophobic residues coloured blue, red and yellow, respectively. The C-terminal residues (153-183) are shown as a ribbon (purple) and the side chains of these residues are shown in stick representation (green). Figure 2B illustrates a comparison of the hydrophobic binding grooves from Bcl-w, Bax and Bcl-x<sub>L</sub>. In all three structures residues equivalent to 8-152 in Bcl-w are shown as a surface representation with the BH domains indicated (BH1 green; BH2 pink; BH3 yellow). The residues that lie in the groove (Bcl-w residues 153-181, Bax residues 166-192 and the Bad peptide) are shown as a ribbon (light blue) with the side chains as sticks (blue). The atomic coordinates of Bax (1fl6) and the Bcl-x<sub>L</sub>/Bad (1g5j) peptide complex were obtained from the Protein Data Bank. Figure 2C depicts a comparison of the binding groove in Bcl-w with those in Bax and Bcl-x<sub>L</sub>. On the left, the ribbon diagram representing Bcl-w (pale blue) is superimposed with Bax (yellow). The C-terminal residues are shown in dark blue (Bcl-w) and dark yellow (Bax). On the right Bcl-w (pale blue, dark blue) is superimposed with Bcl-x<sub>L</sub> (pink):Bad (dark pink) complex.



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The structures were superimposed using TOP (Lu, 2000) and the equivalent view is shown for all of them.

Figure 3 comprises tabular, graphical and photographic representations showing the binding properties of Bcl-w proteins. Figure 3A is a table showing the binding constants for various Bcl-w-BH3-only ligand complexes, which were determined using Biosensor experiments as described herein. Figure 3B is a graphical representation showing the interaction kinetics of Bcl-w binding to Bim<sub>L</sub>ΔC27. Samples of serially diluted Bcl-w (2 μM-62.5 nM) were analysed on a Bim<sub>L</sub>ΔC27 sensor surface as described in Experimental Procedures. The experimental data (—) and the suggested fit to a 1:1 Langmuir binding model (●●●) are illustrated. Figure 3C is a graphical representation showing the interaction kinetics of Bcl-w or Bcl-wΔC29 binding to Bim<sub>L</sub>ΔC27 or Bim<sub>L</sub>ΔC27-L94A. Serial dilutions of Bcl-w or Bcl-wΔC29 were analysed on parallel sensor surfaces that had been derivatized at comparable densities with either Bim<sub>L</sub>ΔC27 or Bim<sub>L</sub>ΔC27-L94A. Relative responses of samples between 1 μM and 62.5 nM are shown. Figure 3D is a photographic representation of a GST pull-down assay to assess the binding capacity of Bcl-w proteins. Approximately equivalent amounts of the indicated GST-Bcl-w proteins were mixed with either soluble wt Bim<sub>L</sub>ΔC27 or soluble Bim<sub>L</sub>ΔC27-L94A. The intensity of the Bim band indicated the amount of protein that bound to Bcl-w. Molecular weight standards in kDa are indicated.

Figure 4 comprises photographic representations showing that the *in vivo* and *in vitro* binding properties of Bcl-x<sub>L</sub> resemble that of Bcl-w. Figure 4A is a photographic representation showing that the C-terminus of Bcl-w restricts access to the binding groove *in vivo*. Equivalent <sup>35</sup>S-labeled 293T lysates obtained from cells co-expressing FLAG Bcl-w or Bcl-wΔC29, and EE-Bim<sub>EL</sub> or Bim<sub>EL</sub>-L150A, were immunoprecipitated using the anti-FLAG M2 (α-F), anti-EE (α-E) or control anti-HA (α-H) monoclonal antibodies. The immunoprecipitations were fractionated on SDS-PAGE gels. Figure 4B is a photographic representation showing that the C-terminus of Bcl-x<sub>L</sub> restricts access to the binding groove *in vivo*. Co-precipitation experiments similar to those described in Figure 4A using lysates from cells co-expressing FLAG Bcl-x<sub>L</sub> or Bcl-x<sub>L</sub>ΔC24, and EE-Bim<sub>L</sub> or Bim<sub>L</sub>-L94A. Figure 4C is a photographic representation showing that a GST pull-down experiment as for Figure 3D, except in this case GST-Bcl-x<sub>L</sub> proteins were mixed with either soluble wt



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Bim $\Delta$ C27 or soluble Bim $\Delta$ C27-L94A. The intensity of the Bim band indicated the amount of protein that bound to Bcl-x<sub>L</sub>.

Figure 5 contains graphical and tabular illustrations showing that Bcl-w $\Delta$ C10 is functionally inert but is structurally similar to biologically active Bcl-w $\Delta$ C5. Figure 5A is a graphical representation showing that Bcl-w cannot tolerate extensive C-terminal deletions. The viability of parental FDC-P1 cells ( $\square$ ) or representative clones expressing different Bcl-w constructs (Bcl-w  $\bullet$ ; Bcl-w (A128E)  $\blacklozenge$ ; Bcl-w $\Delta$ C3  $\blacktriangle$ ; Bcl-w $\Delta$ C5  $\blacktriangledown$ ; Bcl-w $\Delta$ C10  $\diamond$ ; Bcl-w $\Delta$ C23  $\triangle$ ; Bcl-w $\Delta$ C29  $\circ$ ) deprived of IL-3 were determined by PI staining analysed flow cytometrically. Data shown are means  $\pm$  1 SD of at least 3 experiments. Figure 5B is a table summarising the binding properties and biological activity of full-length or C-terminal truncated mutants of Bcl-w. Figure 5A is a graphical representation showing a comparison of the 2D  $^1\text{H}$ - $^{15}\text{N}$ -HSQC spectra for Bcl-w $\Delta$ C10 and Bcl-w $\Delta$ C5. Backbone amide chemical shift differences plotted for residues in  $^{15}\text{N}$  labelled Bcl-w $\Delta$ C10 relative to those for Bcl-w $\Delta$ C5 are indicated. Colours for the helices correspond to those used in Figure 1.

Figure 6 is a diagrammatic representation showing residues Ala49, Gly50, Asp51, Phe53, Arg58, Phe61, Asp63, Leu64, Ala66, His69, Thr71, Ala75, Phe79, Ser83, Gln88, Asn92, Trp93, Gly94, Val101, F102, Gly103, Glu114, Gly120, Gln121, Gln123, Leu134, Ala135, Trp144, Phe147, Thr148, Ala149, Tyr151, Glu158, Ala159, Arg160, Leu162, Arg163, Asn166, Trp167, Ala168, Ser169, Val170, Thr172, Val173, Leu174, Thr175, Gly176, Ala177, Val178, Ala179 (in orange) on Bcl-w $\Delta$ C10 whose resonances shift in a  $^{15}\text{N}$ -NOESY-HSQC on addition of Bim-BH3 peptide.

Figure 7 is a diagrammatic representation of the charge distribution on Bcl-w $\Delta$ C41. Electrostatic charge was calculated in Delphi, simple charge with backbone atoms partially charged (HN, N, O, CA, C') as per the GRASP manual. Levels  $>+8$  kT (blue),  $<-8$  kT (red). F57 cyan and the L180 cavity labelled.

Figure 8 is a schematic representation of a computer system useful in the practice of the present invention.



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**BRIEF DESCRIPTION OF THE SEQUENCES: SUMMARY TABLE**

**TABLE A**

SEQUENCE ID NUMBER	SEQUENCE	LENGTH
SEQ ID NO: 1	Amino acid sequence of wild-type Bcl-w	193 aa
SEQ ID NO: 2	Amino acid sequence of Bcl-w $\Delta$ C10	183 aa



## DETAILED DESCRIPTION OF THE INVENTION

### 1. Definitions

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by those of ordinary skill in the art to which the invention belongs. Although any methods and materials similar or equivalent to those described herein can be used in the practice or testing of the present invention, preferred methods and materials are described. For the purposes of the present invention, the following terms are defined below.

The articles "*a*" and "*an*" are used herein to refer to one or to more than one (i.e. to at least one) of the grammatical object of the article. By way of example, "*an element*" means one element or more than one element.

The term "*about*" is used herein to refer to values or amounts that vary by as much as 30%, preferably by as much as 20%, and more preferably by as much as 10% to a reference value or amount.

The term "*active site*" refers to a region of a molecule or molecular complex that, as a result of its shape and charge potential, favourably interacts or associates with another agent (including, without limitation, a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, molecule, compound, antibiotic or drug) *via* various covalent and/or non-covalent binding forces. As such, an active site of the present invention may include, for example, the actual site of Bcl-w binding with a BH3 ligand, as well as accessory binding sites adjacent to the actual site of BH3 ligand binding that nonetheless may affect Bcl-w upon interaction or association with a particular agent (e.g., sites that interact with the C-terminal region of Bcl-w), either by direct interference with the actual site of BH3 ligand binding or by indirectly affecting the steric conformation or charge potential of Bcl-w and thereby preventing or reducing BH3 ligand binding to Bcl-w at the actual site of BH3 ligand binding. As used herein, "*active site*" also includes any Bcl-w site of self association, as well as other binding sites present on Bcl-w.

The term "*agonist*" refers to a ligand that when bound to a pro-survival protein, especially a Bcl-w protein or variant or derivative thereof, stimulates its activity.



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The term "*altered surface charge*" means a change in one or more of the charge units of a variant polypeptide, at physiological pH, as compared to wild-type Bcl-w. This is preferably achieved by replacement of at least one amino acid of wild-type Bcl-w with another amino acid comprising a side chain with a different charge at physiological pH than the original wild-type side chain. The change in surface charge is suitably determined by measuring the isoelectric point (pI) of the polypeptide molecule containing the substituted amino acid and comparing it to the isoelectric point of the wild-type Bcl-w molecule.

The term "*antagonist*" refers to a ligand that when bound to a pro-survival protein, especially a Bcl-w protein or variant or derivative thereof, inhibits its activity.

The term "*associating with*" refers to a condition of proximity between a chemical entity or compound, or portions thereof, and a Bcl-w molecule or portions thereof. The association may be non-covalent — wherein the juxtaposition is energetically favoured by hydrogen bonding or van der Waals or electrostatic interactions — or it may be covalent.

The term " *$\beta$ -sheet*" refers to the conformation of a polypeptide chain stretched into an extended zigzag conformation. Portions of polypeptide chains that run "parallel" all run in the same direction. Polypeptide chains that are "antiparallel" run in the opposite direction from the parallel chains.

A "*Bcl-w complex*" refers to a co-complex of a molecule comprising a Bcl-w active site in bound association with a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, small molecule, compound or drug, either by covalent or non-covalent binding forces. A non-limiting example of a Bcl-w complex includes Bcl-w or a Bcl-w variant bound to a BH3 ligand.

The term "*Bcl-w-like active site*" and the like refers to a portion of a molecule or molecular complex whose shape is sufficiently similar to all or any parts of the active site of Bcl-w as to bind common ligands. This commonality of shape is defined by a root mean square deviation (rmsd) from the structure coordinates of the C $\alpha$  atoms of the amino acid residues that make up the active site in Bcl-w (as set forth in TABLE 1) of not more than 1.1 Å. How this calculation is obtained is described below. More preferably, the root mean square deviation is less than about 1.0 Å.



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The term "*chemical entity*", as used herein, refers to chemical compounds or ligands, including proteins, polypeptides, peptides, nucleic acids, including DNA or RNA, molecules, or drugs, complexes of at least two chemical compounds, and fragments of such compounds or complexes, .

5           Throughout this specification, unless the context requires otherwise, the words "*comprise*", "*comprises*" and "*comprising*" will be understood to imply the inclusion of a stated step or element or group of steps or elements but not the exclusion of any other step or element or group of steps or elements.

10           By "*derivative*" is meant a polypeptide that has been derived from the basic sequence by modification, for example by conjugation or complexing with other chemical moieties or by post-translational modification techniques as would be understood in the art. The term "*derivative*" also includes within its scope alterations that have been made to a parent sequence including additions, or deletions that provide for functionally equivalent molecules.

15           The term "*hydrophobic amino acid*" means any amino acid having an uncharged, non-polar side chain that is relatively insoluble in water. Examples of naturally occurring hydrophobic amino acids are alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophan and methionine.

20           The term "*hydrophilic amino acid*" means any amino acid having an uncharged, polar side chain that is relatively soluble in water. Examples of naturally occurring hydrophilic amino acids are serine, threonine, tyrosine, asparagine, glutamine, and cysteine.

25           The term "*naturally occurring amino acids*" means the L-isomers of the naturally occurring amino acids. The naturally occurring amino acids are glycine, alanine, valine, leucine, isoleucine, serine, methionine, threonine, phenylalanine, tyrosine, tryptophan, cysteine, proline, histidine, aspartic acid, asparagine, glutamic acid, glutamine,  $\alpha$ -carboxyglutamic acid, arginine, ornithine and lysine. Unless specifically indicated, all amino acids referred to in this application are in the L-form.

30           The term "*negatively charged amino acid*" includes any naturally occurring or unnatural amino acid having a negatively charged side chain under normal physiological



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conditions. Examples of negatively charged naturally occurring amino acids are aspartic acid and glutamic acid.

5 The term "*polynucleotide*" or "*nucleic acid*" as used herein designates mRNA, RNA, cRNA, cDNA or DNA. The term typically refers to oligonucleotides greater than 30 nucleotides in length.

10 The terms "*polynucleotide variant*" and "*variant*" refer to polynucleotides displaying substantial sequence identity with a reference polynucleotide sequence or polynucleotides that hybridize with a reference sequence under stringent conditions that are defined hereinafter. These terms also encompass polynucleotides in which one or more nucleotides have been added or deleted, or replaced with different nucleotides. In this regard, it is well understood in the art that certain alterations inclusive of mutations, additions, deletions and substitutions can be made to a reference polynucleotide whereby the altered polynucleotide retains the biological function or activity of the reference polynucleotide. The terms "*polynucleotide variant*" and "*variant*" also include naturally occurring allelic variants. The term "*variant*" refers to a protein having at least 30% amino acid sequence identity with Bcl-w or any functional domain of Bcl-w, including its active site and C-terminal region.

20 "*Polypeptide*", "*peptide*" and "*protein*" are used interchangeably herein to refer to a polymer of amino acid residues and to variants and synthetic analogues of the same. Thus, these terms apply to amino acid polymers in which one or more amino acid residues is a synthetic non-naturally occurring amino acid, such as a chemical analogue of a corresponding naturally occurring amino acid, as well as to naturally-occurring amino acid polymers.

25 The term "*polypeptide variant*" refers to polypeptides that vary from a reference polypeptide by the addition, deletion or substitution of at least one amino acid. It is well understood in the art that some amino acids may be changed to others with broadly similar properties without changing the nature of the activity of the polypeptide (conservative substitutions) as described hereinafter. Accordingly, polypeptide variants as used herein encompass polypeptides that have pro-survival activity. The term "*variant*" refers to a protein having at least 30% amino acid sequence identity with a reference protein or any functional domain thereof. More specifically, the term "*variant*" includes, but is not limited to, a polypeptide comprising an active site characterised by a three dimensional structure

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comprising (i) the relative structural coordinates of at least three Bcl-w amino acid residues selected from Arg59, Asp63, Leu64, Gln67, Phe79, Val82, Val102 and Leu106 as set forth in TABLE 1, (ii) the relative structural coordinates of amino acid Glu52, Arg56, Arg58, Asp63, Glu85, Arg95 and Lys113 as set forth in TABLE 1, (iii) the relative structural coordinates of at least three Bcl-w amino acid residues selected from Gln44, Ala45, Ala48, Ala49, Gly50, Glu52, Phe53, Arg56, Phe57, Arg58, Arg59, Asp63, Leu64, Ala66, Gln67, His69, Val70, Arg78, Phe79, Gln81, Val82, Ser83, Glu85, Leu86, Phe87, Gln88, Gly89, Gly90, Pro91, Asn92, Trp93, Gly94, Arg95, Val97, Phe99, Phe102, Leu106, Phe147, Thr148, Ala149, Leu150, Tyr151 and Gly152, as set forth in TABLE 1, or (iv) the relative structural coordinates of at least three Bcl-w amino acid residues selected from Gln44, Ala45, Met46, Arg47, Ala48, Ala49, Gly50, Asp51, Glu52, Phe53, Glu54, Thr55, Arg56, Phe57, Arg58, Arg59, Thr60, Ser62, Asp63, Leu64, Ala65, Ala66, Gln67, Leu68, His69, Val70, Thr71, Ala75, Gln76, Gln77, Arg78, Phe79, Thr80, Gln81, Val82, Ser83, Asp84, Glu85, Leu86, Phe87, Gln88, Gly89, Gly90, Pro91, Asn92, Trp93, Gly94, Arg95, Leu96, Val97, Ala98, Phe99, Phe102, Gly103, Leu106, Trp137, Ser141, Glu146, Phe147, Thr148, Ala149, Leu150, Tyr151 and Gly152, as set forth in TABLE 1, in each case,  $\pm$  a root mean square deviation from the conserved backbone atoms of those residues of not more than 1.1 Å, more preferably not more than 1.0 Å, and most preferably not more than 0.5 Å.

The term "*positively charged amino acid*" includes any naturally occurring or unnatural amino acid having a positively charged side chain under normal physiological conditions. Examples of positively charged naturally occurring amino acids are arginine, lysine and histidine.

By "*primer*" is meant an oligonucleotide which, when paired with a strand of DNA, is capable of initiating the synthesis of a primer extension product in the presence of a suitable polymerising agent. The primer is preferably single-stranded for maximum efficiency in amplification but may alternatively be double-stranded. A primer must be sufficiently long to prime the synthesis of extension products in the presence of the polymerisation agent. The length of the primer depends on many factors, including application, temperature to be employed, template reaction conditions, other reagents, and source of primers. For example, depending on the complexity of the target sequence, the oligonucleotide primer typically contains 15 to 35 or more nucleotides, although it may



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contain fewer nucleotides. Primers can be large polynucleotides, such as from about 200 nucleotides to several kilobases or more. Primers may be selected to be "substantially complementary" to the sequence on the template to which it is designed to hybridise and serve as a site for the initiation of synthesis. By "substantially complementary", it is meant that the primer is sufficiently complementary to hybridise with a target nucleotide sequence. Preferably, the primer contains no mismatches with the template to which it is designed to hybridise but this is not essential. For example, non-complementary nucleotides may be attached to the 5' end of the primer, with the remainder of the primer sequence being complementary to the template. Alternatively, non-complementary nucleotides or a stretch of non-complementary nucleotides can be interspersed into a primer, provided that the primer sequence has sufficient complementarity with the sequence of the template to hybridise therewith and thereby form a template for synthesis of the extension product of the primer.

The term "*root mean square deviation*" means the square root of the arithmetic mean of the squares of the deviations from the mean. It is a way to express the deviation or variation from a trend or object. For purposes of this invention, the "root mean square deviation" defines the variation in the C $\alpha$  atoms of a protein from the C $\alpha$  atoms of Bcl-w or a active site portion thereof, as defined by the structure coordinates of Bcl-w described herein.

Terms used to describe sequence relationships between two or more polynucleotides or polypeptides include "reference sequence", "comparison window", "sequence identity", "percentage of sequence identity" and "substantial identity". A "*reference sequence*" is at least 12 but frequently 15 to 18 and often at least 25 monomer units, inclusive of nucleotides and amino acid residues, in length. Because two polynucleotides may each comprise (1) a sequence (*i.e.*, only a portion of the complete polynucleotide sequence) that is similar between the two polynucleotides, and (2) a sequence that is divergent between the two polynucleotides, sequence comparisons between two (or more) polynucleotides are typically performed by comparing sequences of the two polynucleotides over a "comparison window" to identify and compare local regions of sequence similarity. A "*comparison window*" refers to a conceptual segment of at least 6 contiguous positions, usually about 50 to about 100, more usually about 100 to about 150 in which a sequence is compared to a reference sequence of the same number of



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contiguous positions after the two sequences are optimally aligned. The comparison window may comprise additions or deletions (*i.e.*, gaps) of about 20% or less as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. Optimal alignment of sequences for aligning a comparison window may be conducted by computerized implementations of algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package Release 7.0, Genetics Computer Group, 575 Science Drive Madison, WI, USA) or by inspection and the best alignment (*i.e.*, resulting in the highest percentage homology over the comparison window) generated by any of the various methods selected. Reference also may be made to the BLAST family of programs as for example disclosed by Altschul *et al.*, 1997, *Nucl. Acids Res.* 25:3389. A detailed discussion of sequence analysis can be found in Unit 19.3 of Ausubel *et al.*, "Current Protocols in Molecular Biology", John Wiley & Sons Inc, 1994-1998, Chapter 15.

The term "*sequence identity*" as used herein refers to the extent that sequences are identical on a nucleotide-by-nucleotide basis or an amino acid-by-amino acid basis over a window of comparison. Thus, a "*percentage of sequence identity*" is calculated by comparing two optimally aligned sequences over the window of comparison, determining the number of positions at which the identical nucleic acid base (*e.g.*, A, T, C, G, I) or the identical amino acid residue (*e.g.*, Ala, Pro, Ser, Thr, Gly, Val, Leu, Ile, Phe, Tyr, Trp, Lys, Arg, His, Asp, Glu, Asn, Gln, Cys and Met) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison (*i.e.*, the window size), and multiplying the result by 100 to yield the percentage of sequence identity. For the purposes of the present invention, "*sequence identity*" will be understood to mean the "match percentage" calculated by the DNASIS computer program (Version 2.5 for windows; available from Hitachi Software engineering Co., Ltd., South San Francisco, California, USA) using standard defaults as used in the reference manual accompanying the software.

"*Structural coordinates*" are the Cartesian coordinates corresponding to an atom's spatial relationship to other atoms in a molecule or molecular complex. Structural coordinates may be obtained using x-ray crystallography techniques or NMR techniques, or may be derived using molecular replacement analysis or homology modelling. Various software programs allow for the graphical representation of a set of structural coordinates



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to obtain a three dimensional representation of a molecule or molecular complex. The structural coordinates of the present invention may be modified from the original set provided in TABLE 1 by mathematical manipulation, such as by inversion or integer additions or subtractions. As such, it is recognised that the structural coordinates of the present invention are relative, and are in no way specifically limited by the actual x, y, z coordinates of TABLE 1.

The term "*unnatural amino acids*" means amino acids that are not naturally found in proteins. Examples of unnatural amino acids used herein include racemic mixtures of selenocysteine and selenomethionine. In addition, unnatural amino acids include the D or L forms of nor-leucine, para-nitrophenylalanine, homophenylalanine, para-fluorophenylalanine, 3-amino-p2-benzylpropionic acid, homoarginine, and D-phenylalanine.

By "*vector*" is meant a nucleic acid molecule, preferably a DNA molecule derived, for example, from a plasmid, bacteriophage, or plant virus, into which a nucleic acid sequence may be inserted or cloned. A vector preferably contains one or more unique restriction sites and may be capable of autonomous replication in a defined host cell including a target cell or tissue or a progenitor cell or tissue thereof, or be integrable with the genome of the defined host such that the cloned sequence is reproducible. Accordingly, the vector may be an autonomously replicating vector, *i.e.*, a vector that exists as an extrachromosomal entity, the replication of which is independent of chromosomal replication, *e.g.*, a linear or closed circular plasmid, an extrachromosomal element, a minichromosome, or an artificial chromosome. The vector may contain any means for assuring self-replication. Alternatively, the vector may be one which, when introduced into a cell, is integrated into the genome of the recipient cell and replicated together with the chromosome(s) into which it has been integrated. A vector system may comprise a single vector or plasmid, two or more vectors or plasmids, which together contain the total DNA to be introduced into the genome of the host cell, or a transposon. The choice of the vector will typically depend on the compatibility of the vector with the cell into which the vector is to be introduced. The vector may also include a selection marker such as an antibiotic resistance gene that can be used for selection of suitable transformants. Examples of such resistance genes are well known to those of skill in the art.



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## 2. Abbreviations

The following abbreviations are used throughout the application:

A=	Ala =	Alanine	T =	Thr =	Threonine
V=	Val =	Valine	C =	Cys =	Cysteine
L=	Leu =	Leucine	Y =	Tyr =	Tyrosine
I=	Ile =	Isoleucine	N =	Asn =	Asparagine
P=	Pro =	Proline	Q =	Gln =	Glutamine
F =	Phe =	Phenylalanine	D =	Asp =	Aspartic Acid
W =	Trp =	Tryptophan	E =	Glu =	Glutamic Acid
M=	Met =	Methionine	K =	Lys =	Lysine
G=	Gly =	Glycine	R =	Arg =	Arginine
S=	Ser =	Serine	H =	His =	Histidine

## 3. Solution Structure

5       The present invention relates to the three dimensional structure of a Bcl-w (Bcl-w $\Delta$ C10) derivative, and more specifically, to the solution structure of that derivative as determined using multi-dimensional NMR spectroscopy and various computer modelling techniques. The solution coordinates of this derivative (disclosed herein in

10       TABLE 1) are useful for a number of applications, including, but not limited to, the characterisation of a three dimensional structure of Bcl-w and its variants or derivatives, as well as the visualisation, identification and characterisation of Bcl-w active sites, including the site of BH3 ligand binding to Bcl-w. The active site structures may then be used to predict the orientation and binding affinity of a designed or selected agonist or antagonist of Bcl-w, of a Bcl-w variant, derivative or analogue, or of a complex comprising Bcl-w or

15       variant or derivative thereof. Accordingly, the invention is particularly directed to the three dimensional structure of a Bcl-w active site including, but not limited to, the BH3 ligand binding site.

The Bcl-w, Bcl-w variant, derivative or analogue, or complex in solution suitably comprises amino acid residues 43-150 of Bcl-w, more suitably amino acid residues 43-173



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of Bcl-w, preferably amino acid residues 43-173 as set forth in SEQ ID NO: 1, more preferably amino acid residues 43-173 as set forth in SEQ ID NO: 2 and still more preferably amino acid residues 1-183 as set forth in SEQ ID NO: 2, or conservative substitutions thereof. In an especially preferred embodiment, the solution contains a polypeptide comprising the sequence set forth in SEQ ID NO:2, which defines a Bcl-w derivative that lacks the last 10 amino acid residues of Bcl-w and that has Ala182 substituted with a glutamate residue or modified form thereof (referred to herein as Bcl-w $\Delta$ C10).

Preferably, the Bcl-w or Bcl-w variant, derivative or analogue, or complex in solution is either unlabelled,  $^{15}\text{N}$  enriched or  $^{15}\text{N}$ ,  $^{13}\text{C}$  enriched. In addition, the secondary structure of the Bcl-w or Bcl-w variant, derivative or analogue, or complex in the solutions of the present invention suitably comprises eight  $\alpha$ -helices. In this regard,  $\alpha 1$  (drop the hyphen for consistency) comprises amino acid residues Thr10 to Gln24 of Bcl-w,  $\alpha 2$  comprises amino acid residues His43 to Thr55 of Bcl-w,  $\alpha 3$  comprises amino acid residues Ser62 to Leu68 of Bcl-w,  $\alpha 4$  comprises amino acid residues Gln76 to Phe87 of Bcl-w,  $\alpha 5$  comprises amino acid residues Trp93 to Val111 of Bcl-w,  $\alpha 6$  comprises amino acid residues Glu114 to Thr132 of Bcl-w,  $\alpha 7$  comprises amino acid residues Leu134 to Ser141 of Bcl-w, and  $\alpha 8$  comprises amino acid residues Trp144 to Leu150 of Bcl-w. The secondary structure preferably further comprises a ninth  $\alpha$ -helix,  $\alpha 9$ , which comprises amino acid residues Glu157 to Val173 of Bcl-w and which forms part of the C-terminal region of Bcl-w. Preferably, the secondary structure further comprises amino acid residues Leu174 to Leu183, which forms another part of the C-terminal region.

The Bcl-w or Bcl-w variant, derivative or analogue, or complex in solution is suitably analysed by NMR techniques as known in the art, including standard 2D, 3D and 4D triple resonance NMR techniques, to generate NMR spectra. Typically, these spectra are then analysed to obtain NMR resonance assignments and structural constraint assignments, which may contain hydrogen bond, distance, dihedral angle, coupling constant, chemical shift and dipolar coupling constant constraints.

In accordance with a non-limiting embodiment of the present invention, essentially complete, sequence-specific, backbone and side chain assignments for Bcl-w $\Delta$ C10 were determined using a series of heteronuclear 3D NMR experiments (Sattler



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*et al.*, 1999). Structures were calculated using a total of 3871 constraints (Table 2). Figure 1A shows the superposition of the final 20 lowest-energy structures over the backbone atoms (N, C $\alpha$ , C') of residues 8-183. The structural statistics for the ensemble are shown in Table 2 and demonstrate that the NMR structures are both energetically reasonable and have acceptable covalent geometry. The N-terminal 13 residues, including the 5 cloning artefacts (GPLGS), lack any long-range distance constraints and are disordered in solution. In addition the amide protons for residues 59 and 114-115 are in short solvent-accessible loops that exchange rapidly with solvent and are not observable.

As depicted in Figure 1, Bcl-w $\Delta$ C10 is an  $\alpha$ -helical protein containing a well-defined core formed by a central hydrophobic helix,  $\alpha$ 5, (residues 93-111) and flanking amphipathic helices  $\alpha$ 1 (residues 10-24),  $\alpha$ 2 (residues 43-56),  $\alpha$ 3 (residues 62-68),  $\alpha$ 4 (residues 76-87) and  $\alpha$ 6 (residues 116-132) (Figure 1). The amphipathic helices pack closely onto  $\alpha$ 5 and it is therefore largely inaccessible to solvent (Figure 1B). The helices are connected by a series of well-defined loops. The  $\alpha$ 1- $\alpha$ 2 loop is 13 residues in length and has an extended conformation with a turn in the centre that packs onto  $\alpha$ 1. Although the ends of this loop have few contacts, the central region has a number of specific contacts and is ordered (Figure 1A). Short ordered loops connect the remaining helices although some local disorder is seen for the  $\alpha$ 5- $\alpha$ 6 loop, reflecting the fact that the assignments in this region are not complete. Helix  $\alpha$ 7 (residues 134-141) is essentially continuous with  $\alpha$ 6 except for a sharp bend, indicated by a change in the coupling constants, which occurs at residue 133 and disrupts the two helices. At the base of  $\alpha$ 7 lies helix  $\alpha$ 8 (residues 144-150) that primarily contacts  $\alpha$ 2. A sharp turn containing two glycine residues connects  $\alpha$ 8 to helix  $\alpha$ 9 (residues 157-173). As a consequence of this turn  $\alpha$ 9 is folded back onto the structure and the C-terminus of  $\alpha$ 9 makes contacts with residues at the N-terminus of  $\alpha$ 5 and the  $\alpha$ 4- $\alpha$ 5 loop (Figure 2A). Following  $\alpha$ 9 is a region (residues 174-183) of extended but ordered structure. This extended region lies in a groove that is principally formed by residues located in  $\alpha$ 3,  $\alpha$ 4 and the N-terminus of  $\alpha$ 5. The position of the extended region is stabilised by a series of hydrophobic interactions between the tail and residues in  $\alpha$ 3- $\alpha$ 5.

The presence of the C-terminus in the hydrophobic groove means that Bcl-w $\Delta$ C10 is a compact globular molecule with no significant hydrophobic surface attributes. The



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most distinct surface feature of Bcl-w is a region of negative electrostatic potential formed by residues from  $\alpha 1$ ,  $\alpha 1$ - $\alpha 2$  loop,  $\alpha 5$ - $\alpha 6$  loop,  $\alpha 6$  and  $\alpha 7$ . A smaller region of positive potential, which is largely formed by basic residues in  $\alpha 9$ , is seen on the opposite face of the molecule.

5 A binding site for BH3 ligands is provided by the hydrophobic groove bounded by residues on helices  $\alpha 2$ - $\alpha 5$  and  $\alpha 8$ . The binding site is formed from residues on the BH1, BH2 and BH3 domains of Bcl-w (Figure 1C) that are brought into close spatial proximity by the three-dimensional fold of the molecule. The C-terminal helix ( $\alpha 9$ , residues 157-173) and extended region (residues 174-183) of Bcl-w $\Delta$ C10 lie over the surface formed from  
10 the BH1, BH2 and BH3 domains of Bcl-w that bind BH3-ligands as defined by the structures of the complexes of C-terminally truncated Bcl-x<sub>L</sub> bound to BH3 peptides of Bak (Sattler *et al.*, 1997) and Bad- (Petros *et al.*, 2000). In addition to the Bcl-x<sub>L</sub> complex structures there is a structure of a pro-apoptotic molecule, Bax, (Suzuki *et al.*, 2000), which is similar to that of Bcl-w, in that the C-terminal helix of Bax lies over the surface created  
15 by the BH1, BH2 and BH3 domains of Bax (Figure 2). The C-terminal residues of Bcl-w envelop residues located in  $\alpha 2$ ,  $\alpha 2$ - $\alpha 3$  loop,  $\alpha 3$ ,  $\alpha 3$ - $\alpha 4$  loop,  $\alpha 4$ ,  $\alpha 4$ - $\alpha 5$  loop,  $\alpha 5$  and  $\alpha 8$  and covers approximately 1100 Å<sup>2</sup> (as judged by the solvent accessibility calculated in the program MOLMOL (Koradi *et al.*, 1996) (see TABLE 3, which lists the changes). These data suggest that the C-terminal tail of Bcl-w $\Delta$ C10 occludes the BH3 binding site.

20 A <sup>15</sup>N-NOESY-HSQC spectrum of Bcl-w $\Delta$ C10 complexed with Bim-BH3 peptide (Sequence: DLRPEIRIAQELRRIGDEFNETYTRR; residues 53-78 of murine Bim<sub>L</sub>, SwissProt accession number O54918) showed that amide resonances from residues 49-51, 53 (on  $\alpha 2$ ); 58, 61, ( $\alpha 2$ - $\alpha 3$  loop); 63, 64, 66, ( $\alpha 3$ ); 69, 71, 75 ( $\alpha 3$ - $\alpha 4$  loop); 79, 83, ( $\alpha 4$ ); 88, 92, ( $\alpha 4$ - $\alpha 5$  loop); 93, 94, 101-103, ( $\alpha 5$ ); 114 ( $\alpha 5$ - $\alpha 6$  loop); 120, 121, 123, ( $\alpha 6$ ); 134,  
25 135, ( $\alpha 7$ ); 144, 147, 148, 149, ( $\alpha 8$ ); 151, ( $\alpha 8$ - $\alpha 9$  loop); 158-160, 162, 163, 166-170, 172, 173, ( $\alpha 9$ ) 174-179, (extension) of Bcl-w $\Delta$ C10 moved when compared to the unligated protein. These residues map to a face of the molecule that is consistent with the binding of peptide in the groove according to the structures determined by Fesik and co-workers for Bcl-x<sub>L</sub> (Petros *et al.*, 2000; Sattler *et al.*, 1997). Included in the resonance changes are the  
30 C-terminal residues (see Figure 6). The observed changes in the spectra reflect residues that either move location and/or are directly involved in binding ligand. The majority of



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resonances are unchanged in their chemical shifts and this indicates the lack of change to overall 3D structure of Bcl-w on binding ligand.

From the foregoing, there are several residues in the active site or groove of Bcl-w that can be targeted for drug design. For example, since BH3 peptides are amphipathic, (Huang and Strasser, 2000) with the hydrophobic face buried in the groove and the charged surface exposed (Petros *et al.*, 2000; Sattler *et al.*, 1997), it is proposed that these hydrophobic residues contact with residues in the base of the groove. The side chain of L180, in the C-terminus of Bcl-w, is buried in a pocket created by residues Arg59, Asp63, Leu64, Gln67, Phe79, Val82, Phe102, and Leu106 (see Figure 7). Accordingly, a binding pocket defined by the structural coordinates of those residues as set forth in TABLE 1, or a binding pocket whose root mean square deviation from the structure coordinates of the C $\alpha$  atoms of those residues of not more than 1.1 Å, is considered to define at least a portion of the active site of the invention and provides *inter alia* a target for the design of BH3-like ligands of Bcl-w.

In another example, the residues that are occluded by the C-terminal region of Bcl-w may be suitable targets as they provide many of the residues that are directly involved in binding, according to structural studies on C-terminally truncated Bcl-x<sub>L</sub> and its complexes with Bak and Bad (Petros *et al.*, 2000; Sattler *et al.*, 1997) and the present studies on the complex. These include, but are not limited to, residues that are within 5 Å of residues in the C-terminal helix and tail (residues 153-183) of Bcl-w $\Delta$ C10 such as Gln44, Ala45, Ala48, Ala49, Gly50, Glu52, Phe53, Arg56, Phe57, Arg58, Arg59, Asp63, Leu64, Ala66, Gln67, His69, Val70, Arg78, Phe79, Gln81, Val82, Ser83, Glu85, Leu86, Phe87, Gln88, Gly89, Gly90, Pro91, Asn92, Trp93, Gly94, Arg95, Val97, Phe99, Phe102, Leu106, Phe147, Thr148, Ala149, Leu150, Tyr151 and Gly152, and residues that are within 8 Å of residues in the C-terminal helix and tail of Bcl-w $\Delta$ C10 such as Met46, Arg47, Asp51, Glu54, Thr55, Thr60, Ser62, Ala65, Leu68, Thr71, Ala75, Gln76, Gln77, Thr80, Asp84, Leu96, Ala98, Gly103, Trp137, Ser141 and Glu146. The residues, therefore, are proposed to define another part of the Bcl-w active site. Accordingly, a surface defined by the structural coordinates of at least three of those residues as set forth in TABLE 1, or a surface whose root mean square deviation from the structure coordinates of the C $\alpha$  atoms of those residues of not more than 1.1 Å, is considered to define at least another portion of the active site of the invention.



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The present inventors consider that charged residues play a role in the binding of BH3 ligands to their target and that consideration of the charge and shape complementarity is desirable, therefore, in the design of antagonists of Bcl-w pro-survival activity. In this connection, there are conserved charged amino acid residues in the sequences of Bcl-w, Bcl-x<sub>L</sub>, Bcl-2 that line, or are in close proximity to, the binding groove that can be targeted in molecular design. For instance, suitable charged residues of this type include, but are not limited to, Glu52, Arg56, Arg58, Asp63, Glu85, Arg95, Lys113, in Bcl-w (see Figures 1 and 7). In particular, the highly conserved Arg95 of Bcl-w becomes exposed on removal of the C-terminal tail and in the published structures of complexes (Petros *et al.*, 2000; Sattler *et al.*, 1997) the equivalent residue in Bcl-x<sub>L</sub> (Arg139) is in close proximity to the conserved aspartate of the BH3 ligand (equivalent to residue Asp99 on Bim<sub>L</sub>). Mutation of Arg95 to Ala abrogates the binding of Bim to Bcl-w indicating its importance in the Bcl-w binding pocket. Accordingly, this charged residue represents an attractive target for drug design.

Further more, the mutation F57R in Bcl-w abrogates its pro-survival activity while the mutation F57A has little effect on Bcl-w pro-survival activity. This Phe residue sits in a cluster of basic residues including Arg56, Arg58 and Arg59 (Figure 7) and provides another possible target for a BH3 mimetic.

It is also proposed that because the Bcl-w basic amino acid residue Lys113 is conserved in Bcl-2 and Bcl-x<sub>L</sub> and is within 12 Å of the C-terminal helix and tail (residues 153 to 183) of Bcl-wΔC10, it plays a role as a counter ion to the C-terminal residues. This residue represents another possible target for drug design.

Those of skill in the art will appreciate that a set of structure coordinates for an protein or a protein-complex or a portion thereof, is a relative set of points that define a shape in three dimensions. Thus, it is possible that an entirely different set of coordinates could define a similar or identical shape. Moreover, slight variations in the individual coordinates will have little effect on overall shape. In terms of active sites, these variations would not be expected to significantly alter the nature of ligands that could associate with those sites. These variations in coordinates may be generated because of mathematical manipulations of the Bcl-wΔC10 structure coordinates. For example, the structure coordinates set forth in TABLE 1 could be manipulated by fractionalisation of the structure



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coordinates, integer additions or subtractions to sets of the structure coordinates, inversion of the structure coordinates or any combination of the above.

Alternatively, modifications in the solution structure due to mutations, additions, substitutions, and/or deletions of amino acids, or other changes in any of the components of the solution that is the subject of the NMR could also account for variations in structure coordinates. If such variations are within an acceptable standard error as compared to the original coordinates, the resulting three-dimensional shape is considered to be the same. Thus, for example, a ligand that bound to the active site of Bcl-w $\Delta$ C10 would also be expected to bind to another site or binding pocket whose structure coordinates defined a shape that fell within the acceptable error. Accordingly, an active site defined by the structural coordinates of the amino acid residues defined above; or an active site whose root mean square deviation from the structure coordinates of the C $\alpha$  atoms of those residues of not more than about 1.1 Å is considered a Bcl-w-like active site of this invention.

It will be readily apparent to the skilled artisan that the numbering of amino acid residues in variants or other isoforms of Bcl-w may be different than that set forth in TABLE A. Corresponding amino acid residues in such variants or isoforms are easily identified by visual inspection of the amino acid sequences or by using commercially available homology software programs, as for example described herein.

Various computational analyses may be used to determine whether a protein or the active site portion thereof is sufficiently similar to the Bcl-w active site described above. Such analyses may be carried out in well known software applications, such as the Molecular Similarity application of SYBYL (Tripos, Inc., 1699 South Hanley Rd., St. Louis, MO 63144, USA) or QUANTA (Molecular Simulations Inc., San Diego, CA, version 4.1), and as described in the accompanying User's Guides.

#### ***4. Uses of the structure coordinates***

##### **4.1 Computer system related embodiments**

Molecular modelling methods known in the art may be used to identify an active site or binding pocket of Bcl-w, a Bcl-w complex, or of a Bcl-w variant or derivative or analogue. Specifically, the solution structural coordinates provided by the present invention may be used to characterise a three dimensional structure of the Bcl-w molecule,



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molecular complex or Bcl-w variant or derivative or analogue. From such a structure, putative active sites may be computationally visualised, identified and characterised based on the surface structure of the molecule, surface charge, steric arrangement, the presence of reactive amino acid residues, regions of hydrophobicity or hydrophilicity, etc. Such putative active sites may be further refined using chemical shift perturbations of spectra generated from various and distinct Bcl-w complexes, competitive and non-competitive inhibition experiments, and/or by the generation and characterisation of Bcl-w or ligand mutants to identify critical residues or characteristics of the active site.

The identification of putative active sites of a molecule or molecular complex is of great importance, as most often the biological activity of a molecule or molecular complex results from the interaction between an agent and one or more active sites of the molecule or molecular complex. Accordingly, the active sites of a molecule or molecular complex are the best targets to use in the design or selection of modulators that affect the activity of the molecule or molecular complex.

The present invention is directed to an active site of Bcl-w, a Bcl-w complex or of a Bcl-w variant, derivative or analogue, that, as a result of its shape, reactivity, charge potential, etc., favourably interacts or associates with another agent (including, without limitation, a protein, polypeptide, peptide, nucleic acid, including DNA or RNA, molecule, compound, antibiotic or drug). Preferably, the present invention is directed to an active site of a BH3 ligand-binding protein or peptide, as broadly described above.

In order to use the structural coordinates generated for a solution structure of the present invention as set forth in TABLE 1, it is often necessary to display the relevant coordinates as, or convert them to, a three dimensional shape or graphical representation, or to otherwise manipulate them. For example, a three dimensional representation of the structural coordinates is often used in rational drug design, molecular replacement analysis, homology modelling, and mutation analysis. This is typically accomplished using any of a wide variety of commercially available software programs capable of generating three dimensional graphical representations of molecules or portions thereof from a set of structural coordinates. Such commercially available software programs are known in the art, several examples of which are listed in Section 4.2 *infra*.

The ready use of the subject coordinate data for molecular modelling preferably, but not essentially, requires that they be stored in a format that is useable by a computer



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system adapted to generate, on the basis of those data, a three-dimensional graphical representation of at least a portion of Bcl-w or structurally similar variant. Thus, in accordance with the present invention, data representing the structure coordinates of Bcl-w amino acid residues or structural coordinates having a root mean square deviation from the

5 C $\alpha$  atoms of those residues of not more than 1.1 Å and which are capable of being displayed as the three dimensional structure of at least a portion of Bcl-w or structurally similar variant thereof may be stored in a data store or database for use as part of a computer system. The database may have stored therein the entire set of structure coordinates which define the entire Bcl-w $\Delta$ C10 or structurally similar variant thereof,

10 including Bcl-w, Bcl-w $\Delta$ C5 and related polypeptides, or may comprise a subset of such coordinates defining a portion of Bcl-w including, for example, its active site as defined herein.

The three-dimensional representation or structure of at least a portion of a polypeptide of interest (*e.g.*, Bcl-w or its structurally similar variant) is understood to

15 mean a portion of the three-dimensional surface structure or region of that polypeptide, including charge distribution and hydrophilicity/hydrophobicity characteristics, formed by at least three, more preferably at least three to ten, and even more preferably at least ten contiguous amino acid residues of the polypeptide. The contiguous residues forming such a portion may be residues which form a contiguous portion of the primary structure of the

20 polypeptide or residues which form a contiguous portion of the three-dimensional surface of the polypeptide. Thus, the residues forming a portion of the three-dimensional structure of the polypeptide need not be contiguous in the primary sequence of the polypeptide but, rather, must form a contiguous portion of the polypeptide's surface. In a preferred embodiment, a portion of Bcl-w comprises or defines at least one Bcl-w active site

25 binding pocket, as described herein.

Suitably, the computer system comprises a processing means for processing the data in the database to generate a molecular model having a three-dimensional shape representative of at least a portion of Bcl-w or structurally similar variant thereof. In a preferred embodiment, the processor is capable of producing a molecular model having, in

30 addition to the three-dimensional shape, a solvent accessible surface representative of at least a portion of Bcl-w or structurally similar variant thereof.



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Any general or special purpose computer system is contemplated by the present invention and includes a processor in electrical communication with both a memory and at least one input/output device, such as a terminal. Such a system may include, but is not limited to, personal computers, workstations or mainframes. The processor may be a  
5 general purpose processor or microprocessor or a specialised processor executing programs located in RAM memory. The programs may be placed in RAM from a storage device, such as a disk or pre-programmed ROM memory. The RAM memory in one embodiment is used both for data storage and program execution. The computer system also embraces systems where the processor and memory reside in different physical entities but which are  
10 in electrical communication by means of a network. For example, a computer system having the overall characteristics set forth in Figure 8 may be useful in the practice of the instant invention. More specifically, Figure 8 is a schematic representation of a typical computer work station having in electrical communication (100) with one another *via*, for example, an internal bus or external network, a processor (101), a RAM (102), a ROM  
15 (103), a terminal (104), and optionally an external storage device, for example, a diskette, CD ROM, or magnetic tape (105).

In the practice of the present invention, the processing means executes a modelling program which accesses from the database data representative of the structure coordinates of at least a portion of Bcl-w or structurally similar variant thereof, to thereby  
20 construct a three-dimensional model of that molecule. Suitably, the processing means can also execute another program, a solvent accessible surface program, which uses for example the three-dimensional model of Bcl-w $\Delta$ C10 or variant thereof to construct a solvent accessible surface of at least a portion of that molecule and optionally determine the solvent accessible areas of atoms. In one embodiment the solvent accessible surface  
25 program and the modelling program are the same program. In another embodiment, the modelling program and the solvent accessible surface program are different programs. In such an embodiment the modelling program may either store the three-dimensional model in a region of memory accessible both to it and to the solvent accessible surface program, or the three-dimensional model may be written to external storage, such as a disk, CD  
30 ROM, or magnetic tape for later access by the solvent accessible surface program.

As mentioned above, the Bcl-w $\Delta$ C10 structural coordinate data is useful for screening and identifying chemical entities that antagonise Bcl-w. For example, the



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structure encoded by the data may be computationally evaluated for its ability to associate with putative ligands. Such compounds that associate with Bcl-w may antagonise Bcl-w, and are potential drug candidates. Additionally or alternatively, the structure encoded by the data may be displayed in a graphical three-dimensional representation on a computer screen. This allows visual inspection of the structure, as well as visual inspection of the structure's association with the compounds.

Thus, the present invention also encompasses an analysis method, executable by a computer system, for evaluating the potential of a compound to associate with a molecule or molecular complex comprising an active site defined by the structure coordinates of Bcl-w amino acid residues forming an active site of Bcl-w, or a variant of the molecule or molecular complex, wherein the variant comprises an active site that has a root mean square deviation from the C $\alpha$  atoms of those residues of not more than about 1.1 Å. The method comprises the steps of: (a) generating a model of the active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å; (b) performing a fitting operation between the chemical entity and the model of the active site; and (c) quantifying the association between the chemical entity and the active site model, based on the output of said fitting operation.

The root mean square deviation is preferably determined by further using the structure coordinates of Bcl-w amino acid residues additional to those defining the Bcl-w active site. These additional amino acid residues are preferably no more than 40 Å, more preferably no more than 20 Å, even more preferably no more than 10 Å, and still more preferably no more than 8 Å from the nearest atom forming part of the Bcl-w active site of the invention. More preferably, the root mean square deviation is determined by using the structure coordinates of the all Bcl-w amino acid residues as set forth in TABLE 1.

The present invention also facilitates an analysis method, executable by a computer system, for comparing the ability of a chemical entity to associate with a first molecule or molecular complex comprising a first active site relative and the ability of that chemical entity to associate with a second molecule or molecular complex comprising a second active site. For example, this method has utility in identifying, selecting, or designing chemical entities, including antagonist compounds, that more favourably, or



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strongly, associate with Bcl-w than with other pro-survival Bcl-2 family members. The method suitably comprises the steps of: (a) generating a model of the first active site using structure coordinates wherein the root mean square deviation between those structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å; (b) performing a first fitting operation between the chemical entity and the model of the first active site; (c) quantifying the association between the chemical entity and the first active site model, based on the output of the first fitting operation; (d) performing a second fitting operation between the chemical entity and a model of the second active site; (e) quantifying the association between the chemical entity and the second active site model, based on the output of the second fitting operation; and (f) comparing the respective associations of the chemical entity with the first active site model and with the second active site model. From this comparison step, it is possible to determine whether the chemical entity associates more favourably with the first molecule or molecular complex than with the second molecule or molecular complex. This method is useful for identifying ligands that are selective for Bcl-w or closely related variants.

In a preferred embodiment, the second molecule or molecular complex comprises Bcl-2, Bcl-x<sub>L</sub>, Mcl-1 and A1, or variant thereof. In this instance, the second binding pocket model may be a solution structural model, an X-ray crystallographic model or any other structural model of Bcl-2, Bcl-x<sub>L</sub>, Mcl-1 and A1, or variant thereof.

The present invention is also directed to an analysis method, executable by a computer system, for identifying a chemical entity that associates with both a first molecule or molecular complex comprising a first active site, and a second molecule or molecular complex comprising a second active site. This method comprises the steps of: (a) generating a model of the first active site using structure coordinates wherein the root mean square deviation between the structure coordinates and the structure coordinates of the Bcl-w amino acid residues defining a Bcl-w active site of the invention is not more than about 1.1 Å; (b) performing a fitting operation between the chemical entity and the model of the first active site; (c) quantifying the association between the chemical entity and the first active site model, based on the output of the first fitting operation; (d) performing a second fitting operation between the chemical entity and a model of the second active site; (e) quantifying the association between the chemical entity and the



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second active site model, based on the output of the second fitting operation; and (f) comparing the respective associations of the chemical entity with the first active site model and with the second active site model. From this comparison step, it is possible to determine whether the chemical entity individually associates with both the first molecule or molecular complex and the second molecule or molecular complex, which permits the identification of ligands that can bind to Bcl-w and to one or more other Bcl-2 family members.

In another embodiment, the structural coordinates of a Bcl-w active site of the invention can be utilised in a method for identifying a potential antagonist of a molecule comprising a Bcl-w-like binding pocket. This method comprises the steps of (a) using atomic coordinates of at least three Bcl-w amino acid residues defining a Bcl-w active site as defined herein  $\pm$  a root mean square deviation from the C $\alpha$  atoms of those residues of not more than about 1.1 Å, to generate a three-dimensional structure of a molecule comprising a Bcl-w-like active site; (b) employing the three-dimensional structure to identify, design or select the potential antagonist; (c) synthesising or otherwise obtaining the antagonist; and (d) contacting the antagonist with the molecule to determine the ability of the potential antagonist to interact with the molecule.

#### 4.2 Solving the structures of unknown molecules and identification, selection and design of chemical entities that associate with Bcl-w or variants thereof

The structural coordinates of the present invention permit the use of various molecular design and analysis techniques in order to solve the three dimensional structures of related molecules, molecular complexes or Bcl-w variants, derivatives or analogues. More specifically, the present invention provides a method for determining the molecular structure of a molecule or molecular complex whose structure is unknown, comprising the steps of obtaining a solution of the molecule or molecular complex whose structure is unknown, and then generating NMR data from the solution of the molecule or molecular complex. The NMR data from the molecule or molecular complex whose structure is unknown is then compared to the solution structure data obtained from the Bcl-w $\Delta$ C10 solutions of the present invention. Then, 2D, 3D and 4D isotope filtering, editing and triple resonance NMR techniques are used to conform the three dimensional structure determined from the Bcl-w $\Delta$ C10 solution of the present invention to the NMR data from the solution molecule or molecular complex. Alternatively, molecular replacement may be



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used to conform the Bcl-w $\Delta$ C10 solution structure of the present invention to x-ray diffraction data from crystals of the unknown molecule or molecular complex.

Molecular replacement uses a molecule having a known structure as a starting point to model the structure of an unknown crystalline sample. This technique is based on the principle that two molecules which have similar structures, orientations and positions will diffract x-rays similarly. A corresponding approach to molecular replacement is applicable to modelling an unknown solution structure using NMR technology. The NMR spectra and resulting analysis of the NMR data for two similar structures will be essentially identical for regions of the proteins that are structurally conserved, where the NMR analysis consists of obtaining the NMR resonance assignments and the structural constraint assignments, which may contain hydrogen bond, distance, dihedral angle, coupling constant, chemical shift and dipolar coupling constant constraints. The observed differences in the NMR spectra of the two structures will highlight the differences between the two structures and identify the corresponding differences in the structural constraints. The structure determination process for the unknown structure is then based on modifying the NMR constraints from the known structure to be consistent with the observed spectral differences between the NMR spectra.

Accordingly, in one non-limiting embodiment of the invention, the resonance assignments for the Bcl-w $\Delta$ C10 solution provide the starting point for resonance assignments of Bcl-w $\Delta$ C10 in a new Bcl-w $\Delta$ C10:"unsolved agent" complex. Chemical shift perturbations in two dimensional  $^{15}\text{N}/^1\text{H}$  spectra can be observed and compared between the Bcl-w $\Delta$ C10 solution and the new Bcl-w $\Delta$ C10:agent complex. In this way, the affected residues may be correlated with the three dimensional structure of Bcl-w $\Delta$ C10 as provided by the relevant structural coordinates of TABLE 1. This effectively identifies the region of the Bcl-w $\Delta$ C10:agent complex that has incurred a structural change relative to the native Bcl-w $\Delta$ C10 structure. The  $^1\text{H}$ ,  $^{15}\text{N}$ ,  $^{13}\text{C}$  and  $^{13}\text{CO}$  NMR resonance assignments corresponding to both the sequential backbone and side chain amino acid assignments of Bcl-w $\Delta$ C10 may then be obtained and the three dimensional structure of the new Bcl-w $\Delta$ C10:agent complex may be generated using standard 2D, 3D and 4D triple resonance NMR techniques and NMR assignment methodology, using the Bcl-w $\Delta$ C10 solution structure, resonance assignments and structural constraints as a reference. Various



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computer fitting analyses of the new agent with the three dimensional model of Bcl-w $\Delta$ C10 may be performed in order to generate an initial three dimensional model of the new agent complexed with Bcl-w $\Delta$ C10, and the resulting three dimensional model may be refined using standard experimental constraints and energy minimisation techniques in order to position and orient the new agent in association with the three dimensional structure of Bcl-w $\Delta$ C10. An especially preferred embodiment of this type is described in Section 3 *supra* in relation to the  $^{15}\text{N}$ -NOESY-HSQC spectrum of Bcl-w $\Delta$ C10 complexed with Bim-BH3 peptide.

The present invention further provides that the structural coordinates of the present invention may be used with standard homology modelling techniques in order to determine the unknown three-dimensional structure of a molecule or molecular complex. Homology modelling involves constructing a model of an unknown structure using structural coordinates of one or more related protein molecules, molecular complexes or parts thereof (*i.e.*, active sites). Homology modelling may be conducted by fitting common or homologous portions of the protein whose three dimensional structure is to be solved to the three dimensional structure of homologous structural elements in the known molecule, specifically using the relevant (*i.e.*, homologous) structural coordinates provided by TABLE 1 herein. Homology may be determined using amino acid sequence identity, homologous secondary structure elements, and/or homologous tertiary folds. Homology modelling can include rebuilding part or all of a three dimensional structure with replacement of amino acid residues (or other components) by those of the related structure to be solved.

Accordingly, a three dimensional structure for the unknown molecule or molecular complex may be generated using the three dimensional structure of the Bcl-w $\Delta$ C10 molecule of the present invention, refined using a number of techniques well known in the art, and then used in the same fashion as the structural coordinates of the present invention, for instance, in applications involving molecular replacement analysis, homology modelling, and rational drug design.

Determination of the three dimensional structure of Bcl-w $\Delta$ C10, its BH3 ligand binding active site, and other binding sites, is critical to the rational identification and/or design of agents that may act as antagonists of Bcl-w, such as inhibitors of BH3 ligand



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binding to Bcl-w. This is advantageous over conventional drug assay techniques, in which the only way to identify such an agent is to screen thousands of test compounds until an agent having the desired inhibitory effect on a target compound is identified. Necessarily, such conventional screening methods are expensive, time consuming, and do not elucidate the method of action of the identified agent on the target compound. Using such a three dimensional structure, researchers identify putative binding sites and then identify or design agents to interact with these binding sites. These agents are then screened for an inhibitory effect upon the target molecule. In this manner, not only are the number of agents to be screened for the desired activity greatly reduced, but the mechanism of action on the target compound is better understood.

Thus, in accordance with the present invention, a potential Bcl-w antagonist may now be evaluated for its ability to bind a Bcl-w-like active site prior to its actual synthesis and testing. If a proposed compound is predicted to have insufficient interaction or association with the active site, preparation and testing of the compound is obviated. However, if the computer modelling indicates a strong interaction, the compound may then be obtained and tested for its ability to bind to Bcl-w. Testing to confirm binding and/or inhibition may be performed using any suitable assay. Exemplary assays of this type are described below in the preferred embodiments. In this manner, synthesis of inoperative compounds may be avoided.

In a preferred embodiment, the potential Bcl-w antagonist may also be evaluated for its ability to bind an active site of another Bcl-2 pro-survival family member or variant thereof. In one embodiment, the computer modelling preferably indicates a weak interaction between the potential Bcl-w antagonist and the other Bcl-2 pro-survival family member or variant thereof. In another embodiment, the computer modelling preferably indicates a strong interaction between the potential Bcl-w antagonist and the other Bcl-2 pro-survival family member or variant thereof. This interaction may be assayed using suitable receptor binding assays for the other Bcl-2 pro-survival family member or variant thereof, as for example described below in the preferred embodiments.

The design of chemical entities that associate with or antagonise Bcl-w generally involves consideration of two factors. First, the compound must be capable of physically and structurally associating with Bcl-w. Non-covalent molecular interactions important in the association of Bcl-w with its substrate include hydrogen bonding, van der Waals and



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hydrophobic interactions. Second, the compound must be able to assume a conformation that allows it to associate with Bcl-w. Although certain portions of the compound will not directly participate in this association with Bcl-w, those portions may still influence the overall conformation of the molecule. This, in turn, may have a significant impact on  
5 potency. Such conformational requirements include the overall three-dimensional structure and orientation of the chemical entity or compound in relation to all or a portion of the active site, or the spacing between functional groups of a compound comprising several chemical entities that directly interact with Bcl-w.

A potential antagonist of a Bcl-w-like active site may be computationally  
10 evaluated by means of a series of steps in which chemical entities or fragments are screened and selected for their ability to associate with the Bcl-w-like active site. One skilled in the art may use one of several methods to screen chemical entities or fragments for their ability to associate with a Bcl-w-like binding pocket. This process may begin by visual inspection of, for example, a Bcl-w-like binding pocket on the computer screen  
15 based on the Bcl-w $\Delta$ C10 structure coordinates in TABLE 1 or other coordinates which define a similar shape generated from the database.

Selected fragments or chemical entities may then be positioned in a variety of orientations, or docked, within that binding pocket as defined above. Docking may be accomplished using software such as SYBYL and QUANTA, followed by energy  
20 minimisation and molecular dynamics with standard molecular mechanics force fields, such as CHARMM and AMBER.

Specialised computer programs may also assist in the process of selecting fragments or chemical entities. These include but are not limited to:

1. GRID (Goodford, 1985, *J. Med. Chem.* 28: 849-857). GRID is available from  
25 Oxford University, Oxford, UK.

2. MCSS (Miranker *et al.*, 1991, *Proteins: Structure, Function and Genetics* 11: 29-34). MCSS is available from Molecular Simulations, San Diego, CA, USA.

3. AUTODOCK (Goodsell *et al.*, 1990, *Proteins: Structure, Function, and Genetics* 8: 195202). AUTODOCK is available from Scripps Research Institute, La Jolla, CA, USA.

30 4. DOCK (Kuntz *et al.*, 1982, *J. Mol. Biol.* 161: 269-288). DOCK is available from University of California, San Francisco, CA, USA.



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5. UNITY a 3D database searching program available from Tripos Inc., St. Louis, MO, USA.

Once suitable chemical entities or fragments have been selected, they can be designed or assembled into a single compound or complex. Assembly may be preceded by visual inspection of the relationship of the fragments to each other on the three-dimensional image displayed on a computer screen in relation to the structure coordinates of Bcl-w $\Delta$ C10. This would be followed by manual model building using software such as SYBYL or QUANTA.

Useful programs to aid one of skill in the art in connecting the individual chemical entities or fragments include but are not restricted to:

1. CAVEAT (Bartlett *et al.*, 1989, *Special Pub.*, *Royal Chem. Soc.* 78: 182-196; Lauri and Bartlett, 1994, *J. Comput. Aided Mol. Des.* 8: 51-66). CAVEAT is available from the University of California, Berkeley, CA, USA.

2. 3D Database systems such as ISIS (MDL Information Systems, San Leandro, CA, USA). This area is reviewed in Y. C. Martin (1992, *J. Med. Chem.* 35: 2145-2154).

3. HOOK (Eisen *et al.*, 1994, *Proteins: Struct., Funct., Genet.* 19: 199-221). HOOK is available from Molecular Simulations, San Diego, CA, USA.

Instead of proceeding to build an antagonist of a Bcl-w-like binding pocket in a step-wise fashion one fragment or chemical entity at a time as described above, antagonistic or other Bcl-w-binding compounds may be designed as a whole or "*de novo*" using either an empty binding site or optionally including some portion(s) of a known inhibitor(s). There are many *de novo* ligand design methods including but not limited to:

1. LUDI (H.-J. Bohm, 1992, *J. Comp. Aid. Molec. Design* 6: 61-78). LUDI is available from Molecular Simulations Incorporated, San Diego, CA, USA.

2. LEGEND (Nishibata *et al.*, 1991, *Tetrahedron* 47: 8985). LEGEND is available from Molecular Simulations Incorporated, San Diego, CA, USA.

3. LeapFrog (available from Tripos Inc., St. Louis, MO, USA).

4. SPROUT (Gillet *et al.*, 1993, *J. Comput. Aided Mol. Design* 7: 127-153). SPROUT is available from the University of Leeds, UK.



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Other molecular modelling techniques may also be employed in accordance with this invention (see, *e.g.*, Cohen *et al.*, 1990, *J. Med. Chem.* 33: 883-894; see also, Navia and Murcko, 1992, *Current Opinions in Structural Biology* 2: 202-210; Balbes *et al.*, "A Perspective of Modern Methods in Computer-Aided Drug Design", in Reviews in Computational Chemistry, Vol. 5, K. B. Lipkowitz and D. B. Boyd, Eds., VCH, New York, pp. 337-380 (1994); see also, Guida, 1994, *Curr. Opin. Struct. Biology* 4: 777-781).

Once a compound has been designed or selected by the above methods, the efficiency with which that entity may bind to a Bcl-w active site may be tested and optimised by computational evaluation. For example, an effective Bcl-w active site antagonist must preferably demonstrate a relatively small difference in energy between its bound and free states (*i.e.*, a small deformation energy of binding). Thus, the most efficient Bcl-w active site antagonists should preferably be designed with a deformation energy of binding of not greater than about 10 kcal/mole, more preferably, not greater than 7 kcal/mole. Bcl-w active site antagonists may interact with the binding pocket in more than one of multiple conformations that are similar in overall binding energy. In those cases, the deformation energy of binding is taken to be the difference between the energy of the free entity and the average energy of the conformations observed when the antagonist binds to the protein.

An entity designed or selected as binding to a Bcl-w-like binding pocket may be further computationally optimised so that in its bound state it would preferably lack repulsive electrostatic interaction with the target protein and with the surrounding water molecules. Such non-complementary electrostatic interactions include repulsive charge-charge, dipole-dipole and charge-dipole interactions. A designed or selected chemical entity may be further computationally optimised so that it has sufficient lipophilicity to penetrate the blood brain barrier. Using these modelling and optimisation techniques, it will be possible to design Bcl-w active site antagonists with tight binding capacity and capable of displacing the C-terminal tail of Bcl-w to enable entry and binding into that site.

Specific computer software is available in the art to evaluate compound deformation energy and electrostatic interactions. Examples of programs designed for such uses include but are not limited to:



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1. Gaussian 94, revision C (M. J. Frisch, Gaussian, Inc., Pittsburgh, PA, USA, 1995); AMBER, version 4.1 (P. A. Kollman, University of California at San Francisco, USA, 1995).

2. QUANTA/CHARMM (Molecular Simulations, Inc., San Diego, CA, USA, 1995).

3. INSIGHT II/DISCOVER (Molecular Simulations, Inc., San Diego, CA, USA, 1995).

4. DelPhi (Molecular Simulations, Inc., San Diego, CA, USA, 1995).

5. AMSOL (Quantum Chemistry Program Exchange, Indiana University, USA).

These programs may be implemented, for instance, using a Silicon Graphics workstation such as an IRIS 4D/35 or an Indigo2 with "IMPACT" graphics. Other hardware systems and software packages will be known to those skilled in the art.

Another approach enabled by this invention, is the computational screening of small molecule databases for chemical entities or compounds that can bind in whole, or in part, to a Bcl-w active site. In this screening, the quality of fit of such entities to the binding site may be judged either by shape complementarity or by estimated interaction energy (Meng *et al.*, 1992, *J. Comp. Chem.* 13: 505-524).

According to another aspect, the invention provides compounds, which associate with a Bcl-w-like active site, produced or identified by the method as set forth above.

Once a Bcl-w-binding compound has been optimally selected or designed, as described above, substitutions may then be made in some of its atoms or side groups in order to improve or modify its binding properties. Generally, initial substitutions are conservative, *i.e.*, the replacement group will have approximately the same size, shape, hydrophobicity and charge as the original group. It should, of course, be understood that components known in the art to alter conformation should be avoided. Such substituted chemical compounds may then be analysed for efficiency of fit to Bcl-w by the same computer methods described above.

#### 5. Bcl-w variants

The present invention also enables the production of variants of Bcl-w and the solving of their structures. More particularly, by virtue of the present invention, the



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location of the active site permits the identification of desirable sites for structural alteration, which includes substitution, addition or deletion of at least one amino acid residue. Such an alteration may be directed to a particular site or combination of sites of wild-type Bcl-w may be chosen for alteration. Similarly, a location on, at or near the protein surface may be replaced, resulting in an altered surface charge of one or more charge units, as compared to the wild-type protein. Alternatively, an amino acid residue in Bcl-w may be chosen for replacement based on its hydrophilic or hydrophobic characteristics.

Such variants may be characterised by any one of several different properties as compared with wild-type Bcl-w. For example, such variants may have altered surface charge of one or more charge units, or have increased stability, or altered ligand specificity, or altered specific activity, in comparison with wild-type Bcl-w.

The variants of Bcl-w may be prepared in a number of ways. For example, the wild-type sequence of Bcl-w may be altered in those sites identified using this invention as desirable for alteration, by means of oligonucleotide-directed mutagenesis or other conventional methods, *e.g.* deletion. Alternatively, variants of Bcl-w may be generated by the site-specific replacement of a particular amino acid with an unnaturally occurring amino acid. In addition, Bcl-w variants may be generated through replacement of an amino acid residue, or a particular cysteine or methionine residue, with selenocysteine or selenomethionine. This may be achieved by growing a host organism capable of expressing either the wild-type or variant polypeptide on a growth medium depleted of either natural cysteine or methionine (or both) but enriched in selenocysteine or selenomethionine (or both).

A parent Bcl-w or Bcl-w derivative-encoding polynucleotide can be mutated using standard mutagenesis techniques including, but not limited to, random mutagenesis (*e.g.*, transposon mutagenesis), oligonucleotide-mediated (or site-directed) mutagenesis, PCR mutagenesis and cassette mutagenesis. The mutated polynucleotide so produced, or produced by any alternative methods known in the art, can be expressed using suitable expression systems and the variant polypeptides produced in these systems may be purified by a variety of conventional steps and strategies, including those used to purify wild-type Bcl-w. Alternatively, the recombinant polypeptides may be conveniently prepared by a person skilled in the art using standard protocols as for example described in Sambrook, *et*



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*al.*, MOLECULAR CLONING. A LABORATORY MANUAL (Cold Spring Harbor Press, 1989), in particular Sections 16 and 17; Ausubel *et al.*, CURRENT PROTOCOLS IN MOLECULAR BIOLOGY (John Wiley & Sons, Inc. 1994-1998), in particular Chapters 10 and 16; and Coligan *et al.*, CURRENT PROTOCOLS IN PROTEIN SCIENCE (John Wiley & Sons, Inc. 1995-1997), in particular Chapters 1, 5 and 6.

Once the Bcl-w variants have been generated in the desired location, the variants may be tested for any one of several properties of interest.

For example, variants may be screened for an altered charge at physiological pH. This is determined by measuring the variant Bcl-w isoelectric point (pI) in comparison with that of the wild-type parent. Isoelectric points may be measured by gel-electrophoresis according to the method of Wellner (1971, *Analyt. Chem.* 43: 597). A variant with an altered surface charge is suitably a Bcl-w polypeptide containing a replacement amino acid located at the surface of the enzyme, as provided by the structural information of this invention, and an altered pI.

## 15 6. *Pharmaceutical compositions*

Agonist or antagonist compounds identified, designed or selected based on the methods and structures of the present invention might be useful as important leads for the development of compositions to treat a Bcl-w or other pro-survival Bcl-2 family member-mediated disease or condition, including diseases or conditions associated with the activation or inactivation of apoptosis, including degenerative disorders characterised by inappropriate cell proliferation or inappropriate cell death, respectively. Disorders characterised by inappropriate cell proliferation include, for example, inflammatory conditions such as inflammation arising from acute tissue injury including, for example, acute lung injury, cancer including lymphomas, such as prostate hyperplasia, genotypic tumours, autoimmune disorders, tissue hypertrophy etc. Degenerative disorders characterised by inappropriate cell death include, for example, acquired immunodeficiency disease (AIDS), kidney disorders including polycystic kidney disease, cell death due to radiation therapy or chemotherapy, neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease, etc.

30 Pharmaceutical compositions of the present invention will comprise a compound identified, selected or designed using the subject three-dimensional structure (hereinafter



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referred to collectively as "*actives*") and optionally a pharmaceutically acceptable carrier and/or diluent. Depending on the specific conditions being treated, the active(s) may be formulated and administered systemically or locally. Techniques for formulation and administration may be found in "Remington's Pharmaceutical Sciences," Mack Publishing Co., Easton, Pa., latest edition. Suitable routes may, for example, include oral, rectal, transmucosal, or intestinal administration; parenteral delivery, including intramuscular, subcutaneous, intramedullary injections, as well as intrathecal, direct intraventricular, intravenous, intraperitoneal, intranasal, or intraocular injections. For injection, the actives of the invention may be formulated in aqueous solutions, preferably in physiologically compatible buffers such as Hanks' solution, Ringer's solution, or physiological saline buffer. For transmucosal administration, penetrants appropriate to the barrier to be permeated are used in the formulation.

The actives can be formulated readily using pharmaceutically acceptable carriers well known in the art into dosages suitable for oral administration. Such carriers enable the compounds of the invention to be formulated in dosage forms such as tablets, pills, capsules, liquids, gels, syrups, slurries, suspensions and the like, for oral ingestion by a patient to be treated. These carriers may be selected from sugars, starches, cellulose and its derivatives, malt, gelatin, talc, calcium sulfate, vegetable oils, synthetic oils, polyols, alginic acid, phosphate buffered solutions, emulsifiers, isotonic saline, and pyrogen-free water.

Pharmaceutical compositions suitable for use in the present invention include compositions wherein the active ingredients are contained in an effective amount to achieve its intended purpose. The dose of active administered to a patient should be sufficient to effect a beneficial response in the patient over time such as, for example, a decrease in blood pressure. The quantity of the active(s) to be administered may depend on the patient to be treated inclusive of the age, sex, weight and general health condition thereof. In this regard, precise amounts of the active(s) for administration will depend on the judgement of the practitioner. In determining the effective amount of the active to be administered in a treatment, the practitioner may evaluate the progression of a condition to be treated or the progression of a sought-after response. In any event, those of skill in the art may readily determine suitable dosages of the active(s) of the invention.



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Pharmaceutical formulations for parenteral administration include aqueous solutions of the active compounds in water-soluble form. Additionally, suspensions of the active compounds may be prepared as appropriate oily injection suspensions. Suitable lipophilic solvents or vehicles include fatty oils such as sesame oil, or synthetic fatty acid esters, such as ethyl oleate or triglycerides, or liposomes. Aqueous injection suspensions may contain substances that increase the viscosity of the suspension, such as sodium carboxymethyl cellulose, sorbitol, or dextran. Optionally, the suspension may also contain suitable stabilisers or agents which increase the solubility of the compounds to allow for the preparation of highly concentrated solutions.

Pharmaceutical preparations for oral use can be obtained by combining the active compounds with solid excipient, optionally grinding a resulting mixture, and processing the mixture of granules, after adding suitable auxiliaries, if desired, to obtain tablets or dragee cores. Suitable excipients are, in particular, fillers such as sugars, including lactose, sucrose, mannitol, or sorbitol; cellulose preparations such as., for example, maize starch, wheat starch, rice starch, potato starch, gelatin, gum tragacanth, methyl cellulose, hydroxypropylmethyl-cellulose, sodium carboxymethylcellulose, and/or polyvinylpyrrolidone (PVP). If desired, disintegrating agents may be added, such as the cross-linked polyvinyl pyrrolidone, agar, or alginic acid or a salt thereof such as sodium alginate. Such compositions may be prepared by any of the methods of pharmacy but all methods include the step of bringing into association one or more therapeutic agents as described above with the carrier which constitutes one or more necessary ingredients. In general, the pharmaceutical compositions of the present invention may be manufactured in a manner that is itself known, e.g., by means of conventional mixing, dissolving, granulating, dragee-making, levigating, emulsifying, encapsulating, entrapping or lyophilising processes.

Dragee cores are provided with suitable coatings. For this purpose, concentrated sugar solutions may be used, which may optionally contain gum arabic, talc, polyvinyl pyrrolidone, carbopol gel, polyethylene glycol, and/or titanium dioxide, lacquer solutions, and suitable organic solvents or solvent mixtures. Dyestuffs or pigments may be added to the tablets or dragee coatings for identification or to characterise different combinations of active compound doses.



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Pharmaceuticals which can be used orally include push-fit capsules made of gelatin, as well as soft, sealed capsules made of gelatin and a plasticiser, such as glycerol or sorbitol. The push-fit capsules can contain the active ingredients in admixture with filler such as lactose, binders such as starches, and/or lubricants such as talc or magnesium stearate and, optionally, stabilisers. In soft capsules, the active compounds may be dissolved or suspended in suitable liquids, such as fatty oils, liquid paraffin, or liquid polyethylene glycols. In addition, stabilisers may be added.

Dosage forms of the therapeutic agents of the invention may also include injecting or implanting controlled releasing devices designed specifically for this purpose or other forms of implants modified to act additionally in this fashion. Controlled release of an agent of the invention may be effected by coating the same, for example, with hydrophobic polymers including acrylic resins, waxes, higher aliphatic alcohols, polylactic and polyglycolic acids and certain cellulose derivatives such as hydroxypropylmethyl cellulose. In addition, controlled release may be effected by using other polymer matrices, liposomes and/or microspheres.

Furthermore, one may administer the active in a targeted drug delivery system, for example, in a liposome coated with tissue-specific antibody. The liposomes will be targeted to and taken up selectively by the tissue.

The active(s) of the invention may be provided as salts with pharmaceutically compatible counterions. Pharmaceutically compatible salts may be formed with many acids, including but not limited to hydrochloric, sulfuric, acetic, lactic, tartaric, malic, succinic, *etc.* Salts tend to be more soluble in aqueous or other protonic solvents that are the corresponding free base forms.

For any compound used in the method of the invention, the therapeutically effective dose can be estimated initially from cell culture assays. For example, a dose can be formulated in animal models to achieve a circulating concentration range that includes the IC<sub>50</sub> as determined in cell culture (*e.g.*, the concentration of active(s), which achieves, for example, a half-maximal reduction in cell proliferation or cell death. Such information can be used to more accurately determine useful doses in patients.

Toxicity and therapeutic efficacy of such therapeutic agents can be determined by standard pharmaceutical procedures in cell cultures or experimental animals, *e.g.*, for



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determining the LD50 (the dose lethal to 50% of the population) and the ED50 (the dose therapeutically effective in 50% of the population). The dose ratio between toxic and therapeutic effects is the therapeutic index and it can be expressed as the ratio LD50/ED50. Compounds that exhibit large therapeutic indices are preferred. The data obtained from these cell culture assays and animal studies can be used in formulating a range of dosage for use in animals. The dosage of such compounds lies preferably within a range of circulating concentrations that include the ED50 with little or no toxicity. The dosage may vary within this range depending upon the dosage form employed and the route of administration utilised. The exact formulation, route of administration and dosage can be chosen by the individual practitioner in view of an animal's condition. (See for example Fingl *et al.*, 1975, in "The Pharmacological Basis of Therapeutics", Ch. 1 p1).

Dosage amount and interval may be adjusted individually to provide plasma levels of the active(s) which are sufficient to reduce cell death or cell proliferation. Dosage levels of between about 0.01 and about 100 mg/kg body weight per day, preferably between about 0.5 and about 75 mg/kg body weight per day of the Bcl-w agonist or antagonist compounds described herein are useful for the prevention and treatment of a Bcl-w- or other pro-survival Bcl-2 family member-mediated disease or condition. Typically, the pharmaceutical compositions of this invention will be administered from about 1 to about 5 times per day or alternatively, as a continuous infusion. Such administration can be used as a chronic or acute therapy. The amount of active ingredient that may be combined with the carrier materials to produce a single dosage form will vary depending upon the host treated and the particular mode of administration. A typical preparation will contain from about 5% to about 95% active compound (w/w). Preferably, such preparations contain from about 20% to about 80% active compound.

The present invention will now be described with reference to the following non-limiting preferred embodiments.



## DESCRIPTION OF THE PREFERRED EMBODIMENTS

### Solution structure of Bcl-w

Initial attempts to solve the structure of Bcl-w were hampered by its poor solubility and the propensity of full-length protein to aggregate when expressed in *Escherichia coli*. To obtain a molecule that was amenable to study by NMR a series of truncated Bcl-w proteins was generated. The most complete sequence that was highly soluble and could be purified in large quantities was one lacking the last 10 residues (*i.e.*, comprising 183 amino acids instead of 193 amino acids for the wild-type protein). However, acquisition of high quality spectral data from this protein was not viable due to its broad line widths. To resolve this, hydrophobic residues predicted to be solvent accessible (based on homology to Bcl-x<sub>L</sub>) were mutated. One such mutation, A128E, improved the solution properties without disrupting the structure of the protein, as demonstrated by the similarity of the 2D-NOESY spectrum. Consistent with this, the A128E mutation did not affect the biological activity of full-length Bcl-w or the ability of Bcl-w to bind the BH3-only protein Bim, while deletion of the last 10 residues abolished the functional activity of Bcl-w. Longer biologically active proteins were found to have indistinguishable structures but as these samples were considerably more difficult (but not impossible) to prepare, the inventors chose to characterise Bcl-w $\Delta$ C10 (A128E), referred to herein as Bcl-w $\Delta$ C10.

### Structural comparison with other Bcl-2 family proteins

The overall topology of Bcl-w is very similar to that observed for other Bcl-2 family members. These include the pro-survival proteins Bcl-x<sub>L</sub> (Muchmore *et al.*, 1996), Bcl-2 (Petros *et al.*, 2001) and the viral Bcl-2 homologue from KSHV (Huang *et al.*, 2002) as well as the pro-apoptotic proteins Bax (Suzuki *et al.*, 2000) and Bid (Chou *et al.*, 1999; McDonnell *et al.*, 1999). The position of the helices for some of the pro-survival proteins and Bax is indicated in Figure 1C. Notably, helices  $\alpha$ 1 to  $\alpha$ 7 occupy similar positions in all structures and the hydrophobic core is conserved. When compared to the other mammalian pro-survival molecules over the core of the protein (C $\alpha$ , N, C' atoms of helices  $\alpha$ 1- $\alpha$ 7 as defined for Bcl-w), the rmsd lies between 1.39 and 2.02Å. In addition, the conserved BH domains present comparable surfaces in all pro-survival Bcl-2 proteins and some pro-apoptotic proteins e.g. Bax (Figure 2B).



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A number of significant differences exist. Bcl-w differs from both Bcl-2 and Bcl-x<sub>L</sub> in that the  $\alpha$ 1- $\alpha$ 2 loop is both shorter and structurally well defined (Figure 1). This 13 residue loop packs against both  $\alpha$ 1 and the N-terminus of  $\alpha$ 2 in Bcl-w. In contrast, the equivalent loop in Bcl-x<sub>L</sub> and Bcl-2 is longer (~58 residues) and in the structures of Bcl-x<sub>L</sub> $\Delta$ C24 where the full loop is present, it is disordered as indicated by both the lack of electron density in the X-ray structure (pdb 1maz) and <sup>1</sup>H-<sup>15</sup>N NOE data (pdb 1lx1) (Muchmore *et al.*, 1996). A consequence of the short well-defined  $\alpha$ 1- $\alpha$ 2 loop in Bcl-w is that it reduces the solvent accessibility of residues 15-20 in  $\alpha$ 1 that form part of the BH4 domain. Since this domain appears essential for pro-survival activity (Borner *et al.*, 1994; Huang *et al.*, 1998), the  $\alpha$ 1- $\alpha$ 2 loop might control this by modulating access to the BH4 region in Bcl-w.

The major difference between the structure of Bcl-w and those of Bcl-x<sub>L</sub> and Bcl-2, is the presence and location of its C-terminal residues. The structures of Bcl-x<sub>L</sub> and Bcl-2 have been determined using proteins that not only contain deletions in the  $\alpha$ 1- $\alpha$ 2 loop but also are missing the C-terminal hydrophobic residues, hereafter these molecules are referred to as, Bcl-x<sub>L</sub> $\Delta$ C24 (truncated at position 209) (Muchmore *et al.*, 1996; Petros *et al.*, 2000) and Bcl-2 $\Delta$ C32 (truncated at position 207) (Petros *et al.*, 2001). In addition, both proteins contained a C-terminal hexa-His tag and the residues after the last helix,  $\alpha$ 8 (Figure 1C), are disordered. However, an additional helix ( $\alpha$ 9), that is displaced from the core of the protein and does not make any contacts with the rest of the structure, is present in KSHV-Bcl-2 (pdb 1k3k) and Bcl-x<sub>L</sub> complexed to BH3 peptides (pdb 1bx1 and 1g5j) (Huang *et al.*, 2002; Petros *et al.*, 2000; Sattler *et al.*, 1997). This suggests that in Bcl-x<sub>L</sub> and Bcl-2 residues beyond  $\alpha$ 8 have some helix forming ability but the location of these residues in the groove may have been destabilised by the C-terminal truncation.

Although Bcl-w is a pro-survival Bcl-2 protein, the general location of the C-terminus is most similar to that seen for the pro-apoptotic protein Bax (Suzuki *et al.*, 2000) (Figure 2B and 2C). While, the C-terminal residues in both proteins occupy the hydrophobic groove formed by residues from  $\alpha$ 2- $\alpha$ 5 a detailed comparison reveals a number of differences. The C-terminal tail of Bax is shorter and forms a single  $\alpha$ -helix, that lies in the centre of the hydrophobic groove (Figure 2C). In contrast, the region beyond  $\alpha$ 8 in Bcl-w $\Delta$ C10 is considerably longer and, unlike the continuous helix seen in



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Bax, only residues 157 to 173 have a helical conformation. Beyond  $\alpha 9$  in Bcl-w is a region of irregular structure (residues 174-183) containing a number of hydrophobic residues (V173, L174, A177, V178, A179 and L180) (Figure 2A). Contacts between these hydrophobic residues and those in  $\alpha 4$  and the  $\alpha 4$ - $\alpha 5$  loop represent the main interactions that stabilise the C-terminus in Bcl-w. This differs from the situation in Bax (Suzuki *et al.*, 2000), where the location and detailed interactions of their C-terminal residues with the BH1-3 groove differ. BH3 binding can readily displace the tail of Bcl-w to trigger tight membrane association and its inactivation (here and in Wilson-Annan *et al.*, *in prep.*), but it is unclear if a similar mechanism operates to activate Bax (Cheng *et al.*, 2001). Intriguingly, Bax translocation and consequent oligomerization, steps critical in its activation, appears to be linked to its C-terminal residues (Nechushtan *et al.*, 1999; Suzuki *et al.*, 2000). Thus understanding at atomic level how the C-terminal tails of pro-survival Bcl-w and pro-apoptotic Bax are regulated may be important for understanding their opposing biological activities.

Structural comparison of Bcl-w $\Delta$ C10 and Bcl-x<sub>L</sub> $\Delta$ C24 in complex with BH3 peptides from either Bak or Bad (rmsd of 1.58Å over C $\alpha$ , N, C' atoms of helices  $\alpha 1$ - $\alpha 7$  between Bcl-w $\Delta$ C10 and Bcl-x<sub>L</sub> $\Delta$ C24) (Figures 2B and 2C) suggests a mechanism for regulating the position of the C-terminus. The notable feature of this comparison is the similar locations of the BH3-domain peptide ligand and the C-terminus of Bcl-w, although they have opposite orientations with respect to the direction of the protein chain (Figure 2C). The C-terminus of Bcl-x<sub>L</sub> $\Delta$ C24 is truncated and displaced from the core of the protein. In contrast, the helices forming the hydrophobic groove ( $\alpha 2$ - $\alpha 5$ ) have very similar positions in Bcl-w $\Delta$ C10 and the Bcl-x<sub>L</sub> $\Delta$ C24 complex structures (Figure 2C). In particular, when the structures are superimposed to give the overall best agreement  $\alpha 2$ ,  $\alpha 4$  and  $\alpha 5$  overlay closely (rmsd 1.14Å over C $\alpha$ , N, C' atoms) and many of the corresponding side chains that contact the ligand in Bcl-x<sub>L</sub> $\Delta$ C24 have similar rotamer conformations in either structure. Only in  $\alpha 3$  are differences in the position of the helices and the associated side chains seen. Thus, binding of BH3-only ligands to Bcl-w probably requires displacement of the C-terminus from the groove but only small local movements of interacting residues. Once displaced, the hydrophobic C-terminal tail of Bcl-w would be free to bind membranes tightly.



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*The C-termini of Bcl-w influences BH3-domain binding*

To test the idea that the C-terminus of Bcl-w might restrict access to the hydrophobic groove we examined the ability of Bim to interact with Bcl-w. The BH3-only protein Bim, is a potent initiator of apoptotic cell death and all isoforms, including Bim<sub>L</sub> and Bim<sub>EL</sub> used here, have identical BH3 domains (O'Connor *et al.*, 1998). The BH3 domain, present in all the BH3-only proteins, is necessary for binding to and neutralising pro-survival Bcl-2 proteins, and in Bim mutation of a highly conserved residue in this domain (L94A) reduced binding to Bcl-w (or other pro-survival molecules) and killing activity (Figure 3 and not shown). Purified, C-terminally truncated Bim<sub>L</sub> (Bim<sub>L</sub>ΔC27), and a mutant version (Bim<sub>L</sub>ΔC27-L94A), were used to examine the binding properties of Bcl-w by surface plasmon resonance measurement on a BIAcore optical biosensor and by GST pull-down experiments.

As expected from other studies (O'Connor *et al.*, 1998), biosensor and pull-down experiments demonstrated tight binding of wild-type Bim to Bcl-w (Figure 3). Global analysis of the BIAcore binding data revealed unambiguously 1:1 Langmuir interactions between surface-immobilized Bim proteins and Bcl-w proteins in solution (Figure 3B). This analysis also suggested a nanomolar affinity for the interaction between full length Bcl-w and Bim<sub>L</sub>ΔC27 ( $K_d$  24 nM). In contrast, Bim containing the L94 mutation bound with significantly reduced affinity ( $K_d$  1600 nM) and the over 60-fold reduction was due to both, a 10-fold decrease in the association rate and a five-fold increase in the dissociation rates of the mutant protein (Figure 3A). In agreement with the notion that the C-terminal region of Bcl-w restricts access of BH3 domains from interacting proteins, we observed a three-fold increase in the association rate between Bim<sub>L</sub>ΔC27 and Bcl-w truncated by 29 residues at the C-terminus (Bcl-wΔC29), resulting in an improved affinity for this interaction ( $K_d$  11 nM) (Figures 3B and 3C). In contrast to the results obtained with full-length protein, Bcl-wΔC29 also bound Bim<sub>L</sub>ΔC27-L94A with a comparable affinity ( $K_d$  13 nM). Similar results were obtained when a corresponding mutation (L138A) was introduced into another BH3-only protein, Bmf (not shown). The significantly increased affinity of the Bim and Bmf BH3 point mutants for the truncated Bcl-w proteins further supported a role for the C-terminus in regulating the binding of BH3-only proteins to Bcl-w.



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To identify the C-terminal region that occluded the binding groove in Bcl-w, the ability of Bcl-w, or C-terminal truncations of it, to bind wild-type Bim<sub>L</sub> or the L94A mutant was assessed by GST pull-down experiments (Figure 3D). Bcl-w $\Delta$ C10 behaved like full-length Bcl-w and only bound wt Bim<sub>L</sub> $\Delta$ C27, whereas Bcl-w $\Delta$ C20 and Bcl-w $\Delta$ C29  
5 bound equally well to Bim<sub>L</sub> $\Delta$ C27 and Bim<sub>L</sub> $\Delta$ C27-L94A (Figure 3D). This suggests that residues 173-183, those that distinguish  $\Delta$ C10 from  $\Delta$ C20, have an essential role in preventing the interaction of Bim<sub>L</sub> $\Delta$ C27-L94A with Bcl-w. This data is consistent with the NMR structure as these residues make a number of contacts with residues in the hydrophobic groove that are likely to stabilise the location of the C-terminus in Bcl-w  
10 (Figure 2A). The comparable binding properties of full-length Bcl-w and Bcl-w $\Delta$ C10 also suggest that these two proteins are likely to have similar structures and that the C-terminal residues restrict the interaction of some proteins with full-length Bcl-w.

Access to the surface groove of Bcl-w and Bcl-x<sub>L</sub> is normally restricted in vivo

The structural and binding studies described herein suggest that access to the  
15 hydrophobic groove on Bcl-w may be normally restricted by its C-terminus. To determine if Bcl-w adopts a similar conformation in vivo we tested the ability of N-terminally FLAG-tagged full-length or C-terminally truncated Bcl-w, to bind to EE-tagged Bim when overexpressed in 293T cells. Depending on which could be more readily distinguished by its size, either Bim<sub>L</sub> or Bim<sub>EL</sub>, were used in these experiments. Interactions between wild-  
20 type or mutant Bim (L94A in Bim<sub>L</sub> or L150A Bim<sub>EL</sub>) and Bcl-w were measured by the ability of these proteins to be co-immunoprecipitated from 293T cell lysates (Figure 4A). In agreement with the present findings with purified recombinant proteins (Figure 3), Bcl-w $\Delta$ C23 bound both wild-type and the L150A mutant Bim<sub>EL</sub> equally, while full-length Bcl-w only bound wild-type Bim<sub>EL</sub> (Figure 4A).

25 Bcl-x<sub>L</sub> and Bcl-2 also contain hydrophobic residues at their C-termini, similar to those found in Bcl-w (Figure 1C), yet the low level of sequence identity following  $\alpha$ 8 and the absence of 3D-structural information, makes prediction of their conformation difficult. Since Bcl-x<sub>L</sub>, like Bcl-w, is only partially membrane-bound in healthy cells (Hsu *et al.*, 1997), we compared the ability of FLAG-tagged full-length Bcl-x<sub>L</sub> or a C-terminally  
30 truncated mutant ( $\Delta$ C24) to bind to Bim<sub>L</sub> or the  $\square$ L94A BH3 mutant. Like Bcl-w, full-length Bcl-x<sub>L</sub> associates only with wild-type Bim<sub>L</sub> in cell extracts (Figure 4B) and more



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tightly with wild-type Bim<sub>L</sub> in GST pull-down experiments (Figure 4C). However, Bcl-x<sub>L</sub>ΔC24 behaved like Bcl-wΔC29 since it bound wild-type Bim<sub>L</sub> and the L94A mutant equally. Given that Bcl-x<sub>L</sub> also becomes tightly associated with the membranes in response to apoptotic stimuli, presumably due to binding of BH3-only proteins as suggested for Bcl-w, the present results suggest similar roles for the C-terminal residues in both proteins.

*BH3-binding is insufficient for the pro-survival activity of Bcl-w*

Like its cousins Bcl-2 and Bcl-x<sub>L</sub>, Bcl-w overexpression protects cells from diverse death stimuli, including cytokine deprivation and γ-irradiation (Gibson *et al.*, 1996). Since C-terminal truncation of Bcl-w did not affect binding to BH3-only proteins such as Bim, we explored whether BH3-binding alone is sufficient for the pro-survival activity of Bcl-w by comparing the functionality of full-length Bcl-w with C-terminal truncated variants (Bcl-w: -ΔC29; -ΔC23; -ΔC20; -ΔC5; and -ΔC3) when overexpressed in FDC-P1 myeloid cells. The survival of cells expressing comparable levels of FLAG-tagged proteins in response to IL-3 withdrawal, γ-irradiation, or cytotoxic drugs was monitored (Figures 5A and 5B). Surprisingly, only the smallest deletions (ΔC5 and ΔC3) were fully active. Expression of the other deletion mutants failed to afford the cells any protection, even though they were indistinguishable from full-length Bcl-w in their ability to bind to the BH3-only proteins Bim, Bad, Bik/Nbk or Bmf (Figures 3, 4 and not shown).

As Bcl-wΔC10 appeared biologically inert, while Bcl-wΔC5 behaved like the full-length protein, we next compared the spectra of these two molecules to determine if there was a structural basis for the marked functional difference. The <sup>1</sup>H-<sup>15</sup>N-HSQC spectra for Bcl-wΔC5 (A128E), the longest protein that we could purify in sufficient quantities for NMR analysis, was compared with that of Bcl-wΔC10 (Figure 5C). Only small differences in the position of resonances were seen, consistent with addition of 5 residues to the C-terminus of Bcl-wΔC10. In addition, analysis of a <sup>15</sup>N-edited NOESY spectrum obtained for Bcl-wΔC5 indicated that the additional 5 residues were disordered and all other residues that were ordered in Bcl-wΔC10 had a similar pattern of NOEs. Thus, despite its impaired biological activity, Bcl-wΔC10 is structurally equivalent to the functional Bcl-wΔC5 molecule (Figures 5A and 5C). Together the present findings demonstrate that the solution structure of Bcl-w reported here, which shows important differences from that



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of Bcl-2 and Bcl-x<sub>L</sub> (Muchmore *et al.*, 1996; Petros *et al.*, 2001), is that of a biologically relevant molecule and represents the most complete model of a pro-survival Bcl-2 protein.

Since the structure and binding properties of functional Bcl-wΔC5 and non-functional Bcl-wΔC10 appear indistinguishable, we are currently investigating other possible differences between these proteins to explain their contrasting activities. One possible explanation is their localization. Full-length Bcl-w is located exclusively on the outer mitochondrial membrane and as the C-terminal residues are important for localization of other Bcl-2 proteins it is possible that in Bcl-w the most C-terminal residues have a critical role in mediating this association.

## EXPERIMENTAL PROCEDURES

### Production of Bcl-w and Bim proteins

Human Bcl-w and mouse Bim<sub>L</sub> were expressed as glutathione-S-transferase (GST) fusion proteins in *E. coli* BL21(DE3) and purified by affinity chromatography using Glutathione Sepharose (APB; Amersham Pharmacia Biotech). Following purification of the GST-fusion proteins Bcl-w and Bim were released from GST using PreScission protease (APB) and then further purified by size exclusion chromatography using a Superdex-75 column. All the purified proteins have 5 additional N-terminal residues (GPLGS) as a result of cloning. Isotopically labelled proteins were prepared as described previously (Day *et al.*, 1999). Samples of Bcl-wΔC10 used for NMR contained ~1.0 mM protein in 50 mM sodium phosphate (pH 6.7), 70 mM NaCl, 2 mM tris-(2-carboxyethyl) phosphine (TCEP) and 0.04% sodium azide in H<sub>2</sub>O:<sup>2</sup>H<sub>2</sub>O (95:5). The Bcl-wΔC5 sample contained 0.4 mM protein in the same buffer. Site specific mutants of Bim<sub>L</sub> and Bcl-w were generated using a PCR based strategy as described previously (Day *et al.*, 1999). The sequence of all clones was confirmed by sequencing.

### NMR spectroscopy and spectral assignments

Spectra were recorded at 30°C on a Bruker DRX-600 spectrometer equipped with triple resonance probes and pulsed field gradients. A series of heteronuclear 3D NMR experiments were recorded using either <sup>15</sup>N or <sup>13</sup>C, <sup>15</sup>N double labelled protein (Sattler *et al.*, 1999). Experiments recorded on <sup>15</sup>N-labeled Bcl-wΔC10 included a <sup>15</sup>N-edited NOESY-HSQC at mixing times of 50 and 150 ms, HSQC, HNHA, <sup>15</sup>N-edited TOCSY-



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HSQC. Triple resonance experiments recorded on a  $^{13}\text{C}$ ,  $^{15}\text{N}$ -labeled Bcl-w $\Delta$ C10 sample included a HNCA, CBCA(CO)NH and  $^{13}\text{C}$ -edited NOESY-HSQC at mixing times of 50 and 150 ms, a 3D HCCH-TOCSY was also recorded on this sample. A 150 ms mixing time 2D NOESY was acquired on unlabeled Bcl-w $\Delta$ C10. A  $^{15}\text{N}$  HSQC and 150 ms  $^{15}\text{N}$  edited  
5 NOESY-HSQC were recorded on  $^{15}\text{N}$ -Bcl-w $\Delta$ C5. Spectra were referenced relative to DSS in the  $^1\text{H}$  dimension and according to Wishart *et al.* (1995) in the  $^{13}\text{C}$  or  $^{15}\text{N}$  dimension, processed using XWINNMR (Bruker AG) and analyzed using XEASY (Bartels *et al.*, 1995).

#### Distance and dihedral angle restraints

10 Distance restraints were measured from the 3D  $^{15}\text{N}$ -edited NOESY-HSQC, 3D  $^{13}\text{C}$ -edited NOESY as well as the 2D NOESY spectra. Peak integration was performed using XEASY and the calculated distances were calibrated using the CALIBA protocol in DYANA (Güntert *et al.*, 1997). Hydrogen bond constraints were applied at a late stage of the structure calculation where there existed the characteristic low  $^3J_{\text{HNH}\alpha}$  coupling constant  
15 and NOE patterns observed for  $\alpha$ -helices. For each hydrogen bond constraint, upper limits of 2.3 and 3.3 Å were used for the distances from proton to acceptor and donor nitrogen atom to acceptor, respectively. No hydrogen bond constraints were employed outside  $\alpha$ -helices.

Dihedral angle restraints for  $\phi$ ,  $\psi$ ,  $\chi_1$  and  $\chi_2$  angles were used as summarized in  
20 Table 1.  $^3J_{\text{HNH}\alpha}$  were derived from a 3D HNHA spectrum (Vuister and Bax, 1993) and were converted to  $\phi$  angle restraints as follows:  $^3J_{\text{HNH}\alpha} < 5$  Hz,  $\phi = -60 \pm 25^\circ$ ,  $^3J_{\text{HNH}\alpha} < 6$  Hz,  $\phi = -60 \pm 30^\circ$ ,  $^3J_{\text{HNH}\alpha} \geq 8$  Hz,  $\phi = -120 \pm 30^\circ$ . Additional  $\phi$  and  $\psi$  backbone torsion angles plus uncertainties for these values were derived from  $^{13}\text{C}\alpha$  chemical shifts or to  
25 negative  $\phi$  angles where the condition for a positive  $\phi$  angle was not met according to procedures we have reported previously (Day *et al.*, 1999). Stereospecific assignments,  $\chi_1$  and  $\chi_2$  restraints were derived using HABAS and GLOMSA routines in DYANA (Güntert *et al.*, 1997).

#### Structure calculation and analysis

Initial structures were calculated using DYANA 1.5 (Güntert *et al.*, 1997) using  
30 the experimental distance and dihedral angle restraints with the torsion angle dynamics



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simulated annealing protocol. Structures were optimized in DYANA to obtain low target functions and once a final set of experimental constraints had been established a new family of structures was determined and refined with CNS 1.1 (Brünger *et al.*, 1998). The final step in the structure determination protocol involved minimisation in a box of water with the OPLSX force field (Linge and Nilges, 1999) in CNS. Structural statistics for the final set of 20 structures, chosen on the basis of their stereochemical energies, are presented in Table 2. PROCHECK\_NMR (Laskowski *et al.*, 1996) and MOLMOL (Koradi *et al.*, 1996) were used for the analysis of structure quality. The final structures had no experimental distance violations greater than 0.25 Å or dihedral angle violations greater than 5°. Structural figures were generated in MOLMOL.

#### Binding measurements

Direct interactions between Bcl-w and Bim<sub>L</sub> were monitored using GST pull-down experiments. These were performed in 100 µl of PBS (phosphate buffered saline pH 7.3) containing 2 mM DTT. Typically excess soluble proteins were added to equivalent amounts of resin bound proteins. After incubation at room temperature for 30 minutes the resin was pelleted and then washed twice with 200 µl of PBS containing 0.2% Tween 20. After removal of the second wash 10 µl of SDS-PAGE sample buffer was added to each sample and the samples were boiled then loaded onto 16% polyacrylamide gels that were electrophoresed and stained with Coomassie Blue R250. The staining intensity of the bound soluble protein indicated the strength of the interaction between the two proteins.

Analysis of protein interactions by surface plasmon resonance was carried out on a BIAcore 2000 biosensor (BIAcore). For the immobilization to BIAcore CM 5 sensorchips (BIAcore), wild-type or mutant Bim proteins were buffer exchanged into 20 mM Na-acetate, pH 4.5. N-hydroxysuccinimide coupling and binding analysis was done as described previously (Lackmann *et al.*, 1997). In order to minimize mass-transport mediated effects the kinetic experiments were routinely carried out at 20 µl/min. Bcl-w binding at concentrations between 2 and 0.03 µM in running buffer (10 mM HEPES, pH 7.4, 150 mM NaCl, 3.4 mM EDTA, 0.005% Tween 20) was performed on sensorchip surfaces derivatized on parallel channels with a non-relevant protein, Bim<sub>L</sub>ΔC27 and Bim<sub>L</sub>ΔC27-L94A. The binding kinetics were derived from the sensorgrams following subtraction of baseline responses (measured on the control channel) by 'global analysis'



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using the BIA Evaluation software (vers. 3.02, BIAcore). The surface of the chip was regenerated with 50 mM 1,2-diethylamine containing 0.1% Triton X100, followed by two washes with running buffer.

#### Tissue culture, Transfection and Immunoprecipitation

5           Cell culture, stable transfections into FDC-P1, transient transfections into 293T human embryonic kidney cells, metabolic labelling with  $^{35}\text{S}$ -methionine/cysteine (NEN) and co-immunoprecipitation have been previously described (O'Connor *et al.*, 1998, Moriishi *et al.*, 1999; Huang *et al.*, 1998; Wilson-Annan and Huang, submitted). Briefly, mammalian pEF-based expression vectors for Bcl-w, Bcl-x<sub>L</sub>, Bim, Bmf, Bad and Bik  
10 (O'Connor *et al.*, 1998, Huang *et al.*, 1998; Moriishi *et al.*, 1999; Wilson-Annan and Huang, submitted) were transiently transfected using liposome mediated transfection (Lipofectamine™; Invitrogen). 48 hours after transfection, equivalent trichloroacetic acid (TCA; Sigma)-precipitable  $^{35}\text{S}$  counts were immunoprecipitated using the anti-FLAG M2 (Sigma), anti-EE (Glu-Glu) (BabCo) or anti-HA.11 (BabCo) mouse monoclonal  
15 antibodies. The immunoprecipitates were resolved by SDS-PAGE (Novex), transferred onto nitrocellulose membranes (APB) and the proteins detected by fluorography (Amplify; APB).

#### Survival assays

20           Survival assays were performed as described previously (O'Connor *et al.*, 1998; Huang *et al.*, 1998; Wilson-Annan and Huang, submitted; and references therein). Briefly, cells ( $2.5 \times 10^4$  per time point) were left untreated, deprived of their essential growth factor IL-3, exposed to 10Gy  $\gamma$ -irradiation (provided by a  $^{60}\text{Co}$  source), 1-100 nM staurosporine (Sigma). Cell viability was quantified by flow cytometric analysis of cells excluding 5  $\mu\text{g/mL}$  PI (Sigma) using a FACScan (Becton Dickinson). Each time point was performed  
25 in triplicate on at least 3 independent clones of each genotype and the experiments repeated at least 3 times.



Assaying the action of compounds against Bcl-w, Bcl-2 and Bcl-x<sub>L</sub>*In vitro* binding assays:NMR:

- 5 NMR methods can be used to screen compounds by examination of perturbations in the resonance positions of the protein, relaxation properties or translational diffusion rates of the ligand (Stockman and Dalvit 2002). It may also be used to determine binding constants where they are low ( $K_d \sim 20 \mu M$ ).

- 10 Specific binding of small compounds to Bcl-w will be monitored using <sup>15</sup>N-labelled Bcl-w to look for changes in resonance position of residues in the BH3-peptide binding. Compounds will be titrated into solutions of <sup>15</sup>N Bcl-w and the chemical shifts of the amide resonances monitored. Where the compound is in fast exchange (weak binding)  $K_d$  values can be extracted from the titration curve, while in the case of slow exchange (tight binding) a structure for the Bcl-w ligand complex can be determined. Such a method can be extended to look for chemical shift perturbations in Bcl-2 and Bcl-x<sub>L</sub>.

- 15 Chemical shift monitoring can be used to screen compounds discovered in any computational (*in silico*) screen that have potential binding to Bcl-w (or suitably labelled Bcl-2 or Bcl-x<sub>L</sub>), in this procedure mixtures of compounds are added and then deconvoluted if a binding event, as measured by a chemical shift perturbation is observed in the protein resonances.

20 Optical biosensor:

The BIAcore instrument can be used to measure the binding of small molecules directly or in a competition binding mode, where a much larger ligand (such as Bim) is displaced from Bcl-w (Malmqvist, 1999).

*In vivo* assay

25 Cell based:

Promising lead compounds will be subjected to a thorough analysis of their efficacy in killing a variety of cell lines and in mouse tumour models. Their activity on cell viability will be assessed on a panel of cultured tumorigenic and non-tumorigenic cell lines, as well as primary mouse or human cell populations, e.g. lymphocytes. Cell viability



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and total cell numbers will be monitored over 3-7 days of incubation with 1 nM-100  $\mu$ M of the compounds to identify those that kill at  $IC_{50} < 10 \mu$ M.

Such compounds will be evaluated for the specificity of their targets and mode of action *in vivo*. For example, if a lead compound binds with high selectivity to Bcl-2, it should not kill cells lacking Bcl-2. Hence, the specificity of action can be confirmed by  
5 comparing the activity of the compound in wild-type cells with those lacking Bcl-2, derived from Bcl-2-deficient mice.

#### Animal models:

To assess the anti-tumour efficacy of potential BH3 mimetics *in vivo*, the BH3  
10 mimetics will either be given alone (intra-venously; iv or intra-peritoneally; ip) or in combination with sub-optimal doses of clinically relevant chemotherapy (e.g. 25-100 mg/kg cyclophosphamide intra-peritoneally). Mice injected intra-peritoneally with  $10^6$  Bcl-2-overexpressing mouse lymphoma cells (Strasser 1996; Adams 1999) develop an aggressive immature lymphoma that is rapidly fatal within 4 weeks if untreated, but are  
15 partially responsive to cyclophosphamide. The lymphoma/leukaemia can readily be monitored by performing peripheral blood counts in the animals using a Coulter counter or by weighing the lymphoid organs (lymph nodes, spleen) when the animals are sacrificed. Another model is implantation of a cell line such as that derived from human follicular lymphoma (DoHH2) into immunocompromised SCID mice (Lapidot 1997). Because the  
20 BH3 mimetics might prove most efficacious in combination therapy, their *in vivo* activity will be evaluated alone or in combination with conventional chemotherapeutic agents (e.g. cyclophosphamide, doxorubicin, epipodophylotoxin (etoposide; VP-16)). Cohorts of 18-20 mice per treatment arm will be studied to enable a 25% difference in efficacy with a power of 0.8 at a significance level of 0.05 to be determined. These *in vivo* tests in mice  
25 will also generate preliminary pharmacokinetic, pharmacodynamic and toxicology data.

In parallel with these studies, extended analysis of selected compounds (e.g. those killing at  $< 10 \mu$ M) will be undertaken through the gratis services of the National Cancer Institute (NCI) Developmental Therapeutics Program. It conducts tests on submitted compounds for chemotherapeutic activity against a panel of 60 human tumour cell lines  
30 (including leukemias). If useful potency is revealed, the inventors will undertake *in vivo*



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tests for both anti-tumour activity and toxicity on 12 human tumour lines growing in hollow fibers implanted into athymic mice.

The disclosure of every patent, patent application, and publication cited herein is hereby incorporated herein by reference in its entirety.

5           The citation of any reference herein should not be construed as an admission that such reference is available as "Prior Art" to the instant application.

10           Those skilled in the art will appreciate that the invention described herein is susceptible to variations and modifications other than those specifically described. It is to be understood that the invention includes all such variations and modifications. The invention also includes all of the steps, features, compositions and compounds referred to or indicated in this specification, individually or collectively, and any and all combinations of any two or more of said steps or features.

DATED this third day of December 2002

**THE WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH**

15   By their Patent Attorneys

DAVIES COLLISON CAVE



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# TABLES

Table 1: Structure Coordinates of Bcl-wAC10

REMARK	4 BCLW COMPLIES WITH FORMAT V. 2.0, 8-JUL-2002							
MODEL	1							
ATOM	3	N	GLY	-4	-13.882	-0.552	-24.513	1.00 0.00
ATOM	4	CA	GLY	-4	-13.075	-1.278	-23.504	1.00 0.00
ATOM	1	C	GLY	-4	-13.821	-2.464	-22.933	1.00 0.00
ATOM	2	O	GLY	-4	-15.050	-2.493	-22.969	1.00 0.00
ATOM	5	1HA	GLY	-4	-12.165	-1.628	-23.967	1.00 0.00
ATOM	6	2HA	GLY	-4	-12.825	-0.600	-22.701	1.00 0.00
ATOM	7	1HT	GLY	-4	-14.878	-0.856	-24.461	1.00 0.00
ATOM	8	2HT	GLY	-4	-13.519	-0.750	-25.470	1.00 0.00
ATOM	9	3HT	GLY	-4	-13.835	0.475	-24.341	1.00 0.00
ATOM	10	N	PRO	-3	-13.104	-3.469	-22.405	1.00 0.00
ATOM	11	CA	PRO	-3	-13.720	-4.669	-21.828	1.00 0.00
ATOM	15	C	PRO	-3	-14.517	-4.352	-20.566	1.00 0.00
ATOM	16	O	PRO	-3	-15.675	-4.743	-20.431	1.00 0.00
ATOM	12	CB	PRO	-3	-12.523	-5.570	-21.486	1.00 0.00
ATOM	13	CG	PRO	-3	-11.364	-4.993	-22.230	1.00 0.00
ATOM	14	CD	PRO	-3	-11.636	-3.523	-22.338	1.00 0.00
ATOM	17	HA	PRO	-3	-14.359	-5.169	-22.542	1.00 0.00
ATOM	18	1HB	PRO	-3	-12.729	-6.581	-21.806	1.00 0.00
ATOM	19	2HB	PRO	-3	-12.352	-5.554	-20.420	1.00 0.00
ATOM	20	1HG	PRO	-3	-11.300	-5.436	-23.212	1.00 0.00
ATOM	21	2HG	PRO	-3	-10.451	-5.166	-21.679	1.00 0.00
ATOM	22	1HD	PRO	-3	-11.191	-3.119	-23.236	1.00 0.00
ATOM	23	2HD	PRO	-3	-11.268	-3.004	-21.464	1.00 0.00
ATOM	24	N	LEU	-2	-13.885	-3.633	-19.649	1.00 0.00
ATOM	25	CA	LEU	-2	-14.524	-3.253	-18.400	1.00 0.00
ATOM	30	C	LEU	-2	-14.512	-1.735	-18.241	1.00 0.00
ATOM	31	O	LEU	-2	-14.544	-1.002	-19.230	1.00 0.00
ATOM	26	CB	LEU	-2	-13.813	-3.920	-17.218	1.00 0.00
ATOM	27	CG	LEU	-2	-14.314	-5.322	-16.867	1.00 0.00
ATOM	28	CD1	LEU	-2	-13.254	-6.088	-16.092	1.00 0.00
ATOM	29	CD2	LEU	-2	-15.607	-5.244	-16.069	1.00 0.00
ATOM	32	H	LEU	-2	-12.966	-3.345	-19.820	1.00 0.00
ATOM	33	HA	LEU	-2	-15.548	-3.592	-18.433	1.00 0.00
ATOM	34	1HB	LEU	-2	-13.933	-3.290	-16.350	1.00 0.00
ATOM	35	2HB	LEU	-2	-12.759	-3.985	-17.451	1.00 0.00
ATOM	36	HG	LEU	-2	-14.516	-5.864	-17.780	1.00 0.00
ATOM	37	1HD1	LEU	-2	-13.653	-6.381	-15.132	1.00 0.00
ATOM	38	2HD1	LEU	-2	-12.390	-5.457	-15.944	1.00 0.00
ATOM	39	3HD1	LEU	-2	-12.967	-6.969	-16.646	1.00 0.00
ATOM	40	1HD2	LEU	-2	-16.436	-5.075	-16.741	1.00 0.00
ATOM	41	2HD2	LEU	-2	-15.545	-4.429	-15.363	1.00 0.00
ATOM	42	3HD2	LEU	-2	-15.758	-6.170	-15.535	1.00 0.00
ATOM	43	N	GLY	-1	-14.464	-1.269	-17.002	1.00 0.00
ATOM	44	CA	GLY	-1	-14.444	0.157	-16.749	1.00 0.00
ATOM	45	C	GLY	-1	-15.809	0.687	-16.368	1.00 0.00
ATOM	46	O	GLY	-1	-16.078	0.932	-15.197	1.00 0.00
ATOM	47	H	GLY	-1	-14.436	-1.897	-16.251	1.00 0.00
ATOM	48	1HA	GLY	-1	-14.106	0.666	-17.640	1.00 0.00
ATOM	49	2HA	GLY	-1	-13.752	0.360	-15.945	1.00 0.00
ATOM	50	N	SER	0	-16.671	0.858	-17.360	1.00 0.00
ATOM	51	CA	SER	0	-18.020	1.366	-17.133	1.00 0.00
ATOM	54	C	SER	0	-18.863	0.373	-16.331	1.00 0.00
ATOM	55	O	SER	0	-19.891	0.731	-15.758	1.00 0.00
ATOM	52	CB	SER	0	-18.684	1.654	-18.479	1.00 0.00
ATOM	53	OG	SER	0	-17.890	1.158	-19.551	1.00 0.00
ATOM	56	H	SER	0	-16.397	0.643	-18.277	1.00 0.00
ATOM	57	HA	SER	0	-17.940	2.286	-16.576	1.00 0.00
ATOM	58	1HB	SER	0	-18.804	2.721	-18.600	1.00 0.00
ATOM	59	2HB	SER	0	-19.653	1.175	-18.512	1.00 0.00
ATOM	60	HG	SER	0	-18.427	0.578	-20.102	1.00 0.00
ATOM	61	N	MET	1	-18.420	-0.876	-16.293	1.00 0.00
ATOM	62	CA	MET	1	-19.132	-1.916	-15.563	1.00 0.00
ATOM	67	C	MET	1	-18.297	-2.409	-14.384	1.00 0.00
ATOM	68	O	MET	1	-18.472	-3.530	-13.909	1.00 0.00



ATOM	63	CB	MET	1	-19.463	-3.082	-16.499	1.00	0.00
ATOM	64	CG	MET	1	-20.731	-3.836	-16.122	1.00	0.00
ATOM	65	SD	MET	1	-20.639	-5.591	-16.529	1.00	0.00
ATOM	66	CE	MET	1	-22.377	-5.980	-16.736	1.00	0.00
ATOM	69	H	MET	1	-17.595	-1.103	-16.766	1.00	0.00
ATOM	70	HA	MET	1	-20.051	-1.490	-15.189	1.00	0.00
ATOM	71	1HB	MET	1	-18.639	-3.780	-16.489	1.00	0.00
ATOM	72	2HB	MET	1	-19.585	-2.698	-17.502	1.00	0.00
ATOM	73	1HG	MET	1	-21.564	-3.400	-16.653	1.00	0.00
ATOM	74	2HG	MET	1	-20.892	-3.736	-15.059	1.00	0.00
ATOM	75	1HE	MET	1	-22.476	-6.891	-17.306	1.00	0.00
ATOM	76	2HE	MET	1	-22.867	-5.172	-17.260	1.00	0.00
ATOM	77	3HE	MET	1	-22.835	-6.109	-15.767	1.00	0.00
ATOM	78	N	ALA	2	-17.383	-1.569	-13.914	1.00	0.00
ATOM	79	CA	ALA	2	-16.527	-1.933	-12.795	1.00	0.00
ATOM	81	C	ALA	2	-16.322	-0.753	-11.853	1.00	0.00
ATOM	82	O	ALA	2	-15.833	0.301	-12.257	1.00	0.00
ATOM	80	CB	ALA	2	-15.186	-2.445	-13.300	1.00	0.00
ATOM	83	H	ALA	2	-17.282	-0.682	-14.328	1.00	0.00
ATOM	84	HA	ALA	2	-17.011	-2.733	-12.254	1.00	0.00
ATOM	85	1HB	ALA	2	-14.468	-1.639	-13.295	1.00	0.00
ATOM	86	2HB	ALA	2	-15.299	-2.821	-14.307	1.00	0.00
ATOM	87	3HB	ALA	2	-14.840	-3.239	-12.655	1.00	0.00
ATOM	88	N	THR	3	-16.698	-0.937	-10.598	1.00	0.00
ATOM	89	CA	THR	3	-16.554	0.104	-9.599	1.00	0.00
ATOM	93	C	THR	3	-15.348	-0.182	-8.705	1.00	0.00
ATOM	94	O	THR	3	-15.004	-1.344	-8.478	1.00	0.00
ATOM	90	CB	THR	3	-17.831	0.224	-8.733	1.00	0.00
ATOM	91	OG1	THR	3	-17.801	-0.728	-7.660	1.00	0.00
ATOM	92	CG2	THR	3	-19.084	-0.008	-9.567	1.00	0.00
ATOM	95	H	THR	3	-17.080	-1.797	-10.332	1.00	0.00
ATOM	96	HA	THR	3	-16.397	1.042	-10.110	1.00	0.00
ATOM	97	HB	THR	3	-17.871	1.218	-8.321	1.00	0.00
ATOM	98	HG1	THR	3	-16.981	-1.238	-7.704	1.00	0.00
ATOM	99	1HG2	THR	3	-18.804	-0.333	-10.558	1.00	0.00
ATOM	100	2HG2	THR	3	-19.647	0.911	-9.636	1.00	0.00
ATOM	101	3HG2	THR	3	-19.693	-0.768	-9.100	1.00	0.00
ATOM	102	N	PRO	4	-14.687	0.865	-8.188	1.00	0.00
ATOM	103	CA	PRO	4	-13.520	0.711	-7.313	1.00	0.00
ATOM	107	C	PRO	4	-13.871	-0.043	-6.035	1.00	0.00
ATOM	108	O	PRO	4	-14.892	0.231	-5.399	1.00	0.00
ATOM	104	CB	PRO	4	-13.110	2.153	-6.988	1.00	0.00
ATOM	105	CG	PRO	4	-13.745	2.984	-8.049	1.00	0.00
ATOM	106	CD	PRO	4	-15.021	2.281	-8.409	1.00	0.00
ATOM	109	HA	PRO	4	-12.709	0.206	-7.819	1.00	0.00
ATOM	110	1HB	PRO	4	-12.034	2.239	-7.012	1.00	0.00
ATOM	111	2HB	PRO	4	-13.476	2.420	-6.007	1.00	0.00
ATOM	112	1HG	PRO	4	-13.095	3.044	-8.909	1.00	0.00
ATOM	113	2HG	PRO	4	-13.956	3.972	-7.665	1.00	0.00
ATOM	114	1HD	PRO	4	-15.276	2.462	-9.442	1.00	0.00
ATOM	115	2HD	PRO	4	-15.824	2.596	-7.757	1.00	0.00
ATOM	116	N	ALA	5	-13.033	-1.001	-5.670	1.00	0.00
ATOM	117	CA	ALA	5	-13.264	-1.798	-4.477	1.00	0.00
ATOM	119	C	ALA	5	-12.248	-1.468	-3.395	1.00	0.00
ATOM	120	O	ALA	5	-11.101	-1.137	-3.695	1.00	0.00
ATOM	118	CB	ALA	5	-13.214	-3.279	-4.821	1.00	0.00
ATOM	121	H	ALA	5	-12.240	-1.180	-6.218	1.00	0.00
ATOM	122	HA	ALA	5	-14.255	-1.570	-4.110	1.00	0.00
ATOM	123	1HB	ALA	5	-13.370	-3.863	-3.925	1.00	0.00
ATOM	124	2HB	ALA	5	-12.250	-3.518	-5.243	1.00	0.00
ATOM	125	3HB	ALA	5	-13.988	-3.509	-5.538	1.00	0.00
ATOM	126	N	SER	6	-12.688	-1.574	-2.142	1.00	0.00
ATOM	127	CA	SER	6	-11.847	-1.306	-0.978	1.00	0.00
ATOM	130	C	SER	6	-11.299	0.125	-0.976	1.00	0.00
ATOM	131	O	SER	6	-10.203	0.393	-1.471	1.00	0.00
ATOM	128	CB	SER	6	-10.704	-2.325	-0.902	1.00	0.00
ATOM	129	OG	SER	6	-11.206	-3.654	-0.941	1.00	0.00
ATOM	132	H	SER	6	-13.615	-1.851	-1.995	1.00	0.00
ATOM	133	HA	SER	6	-12.467	-1.427	-0.102	1.00	0.00
ATOM	134	1HB	SER	6	-10.158	-2.185	0.019	1.00	0.00
ATOM	135	2HB	SER	6	-10.039	-2.179	-1.741	1.00	0.00
ATOM	136	HG	SER	6	-10.973	-4.055	-1.786	1.00	0.00
ATOM	137	N	ALA	7	-12.067	1.035	-0.390	1.00	0.00



ATOM	138	CA	ALA	7	-11.668	2.434	-0.291	1.00	0.00
ATOM	140	C	ALA	7	-10.676	2.607	0.860	1.00	0.00
ATOM	141	O	ALA	7	-10.583	1.729	1.723	1.00	0.00
ATOM	139	CB	ALA	7	-12.898	3.310	-0.084	1.00	0.00
ATOM	142	H	ALA	7	-12.919	0.758	-0.001	1.00	0.00
ATOM	143	HA	ALA	7	-11.193	2.719	-1.218	1.00	0.00
ATOM	144	1HB	ALA	7	-13.590	3.155	-0.899	1.00	0.00
ATOM	145	2HB	ALA	7	-12.601	4.348	-0.056	1.00	0.00
ATOM	146	3HB	ALA	7	-13.375	3.047	0.850	1.00	0.00
ATOM	147	N	PRO	8	-9.910	3.722	0.890	1.00	0.00
ATOM	148	CA	PRO	8	-8.909	3.991	1.943	1.00	0.00
ATOM	152	C	PRO	8	-9.534	4.278	3.312	1.00	0.00
ATOM	153	O	PRO	8	-9.229	5.283	3.956	1.00	0.00
ATOM	149	CB	PRO	8	-8.157	5.231	1.429	1.00	0.00
ATOM	150	CG	PRO	8	-8.554	5.373	-0.003	1.00	0.00
ATOM	151	CD	PRO	8	-9.936	4.802	-0.104	1.00	0.00
ATOM	154	HA	PRO	8	-8.216	3.168	2.041	1.00	0.00
ATOM	155	1HB	PRO	8	-7.093	5.075	1.528	1.00	0.00
ATOM	156	2HB	PRO	8	-8.452	6.096	2.006	1.00	0.00
ATOM	157	1HG	PRO	8	-7.872	4.817	-0.630	1.00	0.00
ATOM	158	2HG	PRO	8	-8.557	6.416	-0.281	1.00	0.00
ATOM	159	1HD	PRO	8	-10.114	4.411	-1.094	1.00	0.00
ATOM	160	2HD	PRO	8	-10.675	5.548	0.150	1.00	0.00
ATOM	161	N	ASP	9	-10.402	3.379	3.746	1.00	0.00
ATOM	162	CA	ASP	9	-11.078	3.495	5.029	1.00	0.00
ATOM	167	C	ASP	9	-10.261	2.793	6.112	1.00	0.00
ATOM	168	O	ASP	9	-9.092	2.458	5.892	1.00	0.00
ATOM	163	CB	ASP	9	-12.479	2.882	4.925	1.00	0.00
ATOM	164	CG	ASP	9	-13.512	3.621	5.750	1.00	0.00
ATOM	165	OD1	ASP	9	-13.661	3.291	6.941	1.00	0.00
ATOM	166	OD2	ASP	9	-14.186	4.522	5.205	1.00	0.00
ATOM	169	H	ASP	9	-10.591	2.598	3.179	1.00	0.00
ATOM	170	HA	ASP	9	-11.162	4.545	5.272	1.00	0.00
ATOM	171	1HB	ASP	9	-12.440	1.858	5.265	1.00	0.00
ATOM	172	2HB	ASP	9	-12.795	2.900	3.893	1.00	0.00
ATOM	173	N	THR	10	-10.868	2.560	7.270	1.00	0.00
ATOM	174	CA	THR	10	-10.188	1.893	8.374	1.00	0.00
ATOM	178	C	THR	10	-9.711	0.501	7.967	1.00	0.00
ATOM	179	O	THR	10	-8.615	0.086	8.338	1.00	0.00
ATOM	175	CB	THR	10	-11.097	1.778	9.612	1.00	0.00
ATOM	176	OG1	THR	10	-12.239	2.629	9.463	1.00	0.00
ATOM	177	CG2	THR	10	-10.341	2.155	10.878	1.00	0.00
ATOM	180	H	THR	10	-11.802	2.841	7.388	1.00	0.00
ATOM	181	HA	THR	10	-9.326	2.491	8.638	1.00	0.00
ATOM	182	HB	THR	10	-11.431	0.754	9.702	1.00	0.00
ATOM	183	HG1	THR	10	-13.047	2.087	9.474	1.00	0.00
ATOM	184	1HG2	THR	10	-9.397	1.630	10.905	1.00	0.00
ATOM	185	2HG2	THR	10	-10.930	1.884	11.742	1.00	0.00
ATOM	186	3HG2	THR	10	-10.163	3.220	10.885	1.00	0.00
ATOM	187	N	ARG	11	-10.528	-0.213	7.196	1.00	0.00
ATOM	188	CA	ARG	11	-10.170	-1.554	6.741	1.00	0.00
ATOM	196	C	ARG	11	-8.920	-1.512	5.870	1.00	0.00
ATOM	197	O	ARG	11	-8.065	-2.390	5.956	1.00	0.00
ATOM	189	CB	ARG	11	-11.326	-2.195	5.967	1.00	0.00
ATOM	190	CG	ARG	11	-11.121	-3.678	5.683	1.00	0.00
ATOM	191	CD	ARG	11	-12.345	-4.298	5.029	1.00	0.00
ATOM	192	NE	ARG	11	-12.165	-4.488	3.589	1.00	0.00
ATOM	193	CZ	ARG	11	-13.085	-5.024	2.785	1.00	0.00
ATOM	194	NH1	ARG	11	-14.226	-5.487	3.284	1.00	0.00
ATOM	195	NH2	ARG	11	-12.851	-5.122	1.480	1.00	0.00
ATOM	198	H	ARG	11	-11.397	0.175	6.927	1.00	0.00
ATOM	199	HA	ARG	11	-9.956	-2.154	7.615	1.00	0.00
ATOM	200	1HB	ARG	11	-11.438	-1.682	5.023	1.00	0.00
ATOM	201	2HB	ARG	11	-12.235	-2.080	6.539	1.00	0.00
ATOM	202	1HG	ARG	11	-10.922	-4.187	6.614	1.00	0.00
ATOM	203	2HG	ARG	11	-10.275	-3.793	5.021	1.00	0.00
ATOM	204	1HD	ARG	11	-13.193	-3.649	5.194	1.00	0.00
ATOM	205	2HD	ARG	11	-12.533	-5.258	5.487	1.00	0.00
ATOM	206	HE	ARG	11	-11.308	-4.194	3.198	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.403	-5.438	4.274	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.909	-5.904	2.680	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.981	-4.795	1.096	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.544	-5.525	0.869	1.00	0.00



ATOM	211	N	ALA	12	-8.805	-0.480	5.048	1.00	0.00
ATOM	212	CA	ALA	12	-7.645	-0.333	4.188	1.00	0.00
ATOM	214	C	ALA	12	-6.433	0.080	5.011	1.00	0.00
ATOM	215	O	ALA	12	-5.308	-0.322	4.728	1.00	0.00
ATOM	213	CB	ALA	12	-7.913	0.682	3.090	1.00	0.00
ATOM	216	H	ALA	12	-9.509	0.203	5.032	1.00	0.00
ATOM	217	HA	ALA	12	-7.446	-1.290	3.726	1.00	0.00
ATOM	218	1HB	ALA	12	-7.076	1.360	3.015	1.00	0.00
ATOM	219	2HB	ALA	12	-8.808	1.240	3.324	1.00	0.00
ATOM	220	3HB	ALA	12	-8.045	0.168	2.149	1.00	0.00
ATOM	221	N	LEU	13	-6.677	0.885	6.037	1.00	0.00
ATOM	222	CA	LEU	13	-5.609	1.355	6.907	1.00	0.00
ATOM	227	C	LEU	13	-5.099	0.228	7.808	1.00	0.00
ATOM	228	O	LEU	13	-3.894	0.075	7.995	1.00	0.00
ATOM	223	CB	LEU	13	-6.097	2.543	7.736	1.00	0.00
ATOM	224	CG	LEU	13	-5.363	2.775	9.055	1.00	0.00
ATOM	225	CD1	LEU	13	-4.125	3.630	8.837	1.00	0.00
ATOM	226	CD2	LEU	13	-6.294	3.426	10.063	1.00	0.00
ATOM	229	H	LEU	13	-7.604	1.175	6.214	1.00	0.00
ATOM	230	HA	LEU	13	-4.796	1.683	6.276	1.00	0.00
ATOM	231	1HB	LEU	13	-7.145	2.395	7.954	1.00	0.00
ATOM	232	2HB	LEU	13	-5.996	3.435	7.132	1.00	0.00
ATOM	233	HG	LEU	13	-5.046	1.823	9.456	1.00	0.00
ATOM	234	1HD1	LEU	13	-4.423	4.628	8.551	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.520	3.196	8.054	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.553	3.674	9.752	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.747	4.302	9.621	1.00	0.00
ATOM	238	2HD2	LEU	13	-5.729	3.716	10.937	1.00	0.00
ATOM	239	3HD2	LEU	13	-7.065	2.726	10.348	1.00	0.00
ATOM	240	N	VAL	14	-6.016	-0.571	8.355	1.00	0.00
ATOM	241	CA	VAL	14	-5.629	-1.681	9.219	1.00	0.00
ATOM	245	C	VAL	14	-4.873	-2.734	8.409	1.00	0.00
ATOM	246	O	VAL	14	-3.918	-3.343	8.894	1.00	0.00
ATOM	242	CB	VAL	14	-6.844	-2.319	9.950	1.00	0.00
ATOM	243	CG1	VAL	14	-7.717	-3.133	9.004	1.00	0.00
ATOM	244	CG2	VAL	14	-6.377	-3.181	11.114	1.00	0.00
ATOM	247	H	VAL	14	-6.969	-0.410	8.169	1.00	0.00
ATOM	248	HA	VAL	14	-4.957	-1.286	9.969	1.00	0.00
ATOM	249	HB	VAL	14	-7.450	-1.521	10.352	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.537	-2.817	7.987	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.757	-2.978	9.252	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.476	-4.181	9.104	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.174	-3.845	11.414	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.104	-2.546	11.944	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.520	-3.763	10.809	1.00	0.00
ATOM	256	N	ALA	15	-5.289	-2.922	7.160	1.00	0.00
ATOM	257	CA	ALA	15	-4.639	-3.878	6.276	1.00	0.00
ATOM	259	C	ALA	15	-3.283	-3.344	5.823	1.00	0.00
ATOM	260	O	ALA	15	-2.401	-4.111	5.445	1.00	0.00
ATOM	258	CB	ALA	15	-5.519	-4.179	5.073	1.00	0.00
ATOM	261	H	ALA	15	-6.048	-2.395	6.823	1.00	0.00
ATOM	262	HA	ALA	15	-4.490	-4.796	6.826	1.00	0.00
ATOM	263	1HB	ALA	15	-5.796	-3.253	4.590	1.00	0.00
ATOM	264	2HB	ALA	15	-6.410	-4.695	5.397	1.00	0.00
ATOM	265	3HB	ALA	15	-4.977	-4.800	4.376	1.00	0.00
ATOM	266	N	ASP	16	-3.135	-2.023	5.876	1.00	0.00
ATOM	267	CA	ASP	16	-1.895	-1.359	5.481	1.00	0.00
ATOM	272	C	ASP	16	-0.807	-1.581	6.520	1.00	0.00
ATOM	273	O	ASP	16	0.187	-2.248	6.250	1.00	0.00
ATOM	268	CB	ASP	16	-2.140	0.143	5.293	1.00	0.00
ATOM	269	CG	ASP	16	-0.878	0.990	5.395	1.00	0.00
ATOM	270	OD1	ASP	16	0.054	0.770	4.599	1.00	0.00
ATOM	271	OD2	ASP	16	-0.848	1.914	6.239	1.00	0.00
ATOM	274	H	ASP	16	-3.884	-1.474	6.192	1.00	0.00
ATOM	275	HA	ASP	16	-1.574	-1.783	4.543	1.00	0.00
ATOM	276	1HB	ASP	16	-2.836	0.480	6.049	1.00	0.00
ATOM	277	2HB	ASP	16	-2.576	0.307	4.320	1.00	0.00
ATOM	278	N	PHE	17	-1.005	-1.011	7.704	1.00	0.00
ATOM	279	CA	PHE	17	-0.040	-1.125	8.793	1.00	0.00
ATOM	287	C	PHE	17	0.310	-2.578	9.089	1.00	0.00
ATOM	288	O	PHE	17	1.487	-2.942	9.158	1.00	0.00
ATOM	280	CB	PHE	17	-0.582	-0.462	10.058	1.00	0.00
ATOM	281	CG	PHE	17	0.499	-0.025	11.007	1.00	0.00



ATOM	282	CD1	PHE	17	1.586	0.704	10.552	1.00	0.00
ATOM	283	CD2	PHE	17	0.431	-0.352	12.351	1.00	0.00
ATOM	284	CE1	PHE	17	2.585	1.099	11.420	1.00	0.00
ATOM	285	CE2	PHE	17	1.426	0.043	13.225	1.00	0.00
ATOM	286	CZ	PHE	17	2.504	0.768	12.759	1.00	0.00
ATOM	289	H	PHE	17	-1.821	-0.485	7.842	1.00	0.00
ATOM	290	HA	PHE	17	0.858	-0.610	8.490	1.00	0.00
ATOM	291	1HB	PHE	17	-1.218	-1.165	10.576	1.00	0.00
ATOM	292	2HB	PHE	17	-1.159	0.408	9.784	1.00	0.00
ATOM	293	HD1	PHE	17	1.648	0.965	9.506	1.00	0.00
ATOM	294	HD2	PHE	17	-0.412	-0.919	12.717	1.00	0.00
ATOM	295	HE1	PHE	17	3.426	1.667	11.054	1.00	0.00
ATOM	296	HE2	PHE	17	1.362	-0.218	14.271	1.00	0.00
ATOM	297	HZ	PHE	17	3.283	1.077	13.439	1.00	0.00
ATOM	298	N	VAL	18	-0.710	-3.406	9.263	1.00	0.00
ATOM	299	CA	VAL	18	-0.494	-4.813	9.552	1.00	0.00
ATOM	303	C	VAL	18	0.118	-5.516	8.346	1.00	0.00
ATOM	304	O	VAL	18	1.041	-6.312	8.488	1.00	0.00
ATOM	300	CB	VAL	18	-1.810	-5.512	9.966	1.00	0.00
ATOM	301	CG1	VAL	18	-1.597	-7.004	10.174	1.00	0.00
ATOM	302	CG2	VAL	18	-2.376	-4.875	11.228	1.00	0.00
ATOM	305	H	VAL	18	-1.628	-3.061	9.195	1.00	0.00
ATOM	306	HA	VAL	18	0.201	-4.878	10.378	1.00	0.00
ATOM	307	HB	VAL	18	-2.529	-5.383	9.170	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.698	-7.161	10.753	1.00	0.00
ATOM	309	2HG1	VAL	18	-1.495	-7.490	9.215	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.442	-7.420	10.701	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.993	-5.592	11.749	1.00	0.00
ATOM	312	2HG2	VAL	18	-2.971	-4.015	10.960	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.564	-4.565	11.869	1.00	0.00
ATOM	314	N	GLY	19	-0.385	-5.200	7.161	1.00	0.00
ATOM	315	CA	GLY	19	0.139	-5.802	5.949	1.00	0.00
ATOM	316	C	GLY	19	1.599	-5.474	5.733	1.00	0.00
ATOM	317	O	GLY	19	2.416	-6.364	5.527	1.00	0.00
ATOM	318	H	GLY	19	-1.108	-4.539	7.103	1.00	0.00
ATOM	319	1HA	GLY	19	-0.429	-5.440	5.105	1.00	0.00
ATOM	320	2HA	GLY	19	0.026	-6.874	6.015	1.00	0.00
ATOM	321	N	TYR	20	1.913	-4.190	5.778	1.00	0.00
ATOM	322	CA	TYR	20	3.273	-3.694	5.592	1.00	0.00
ATOM	331	C	TYR	20	4.240	-4.348	6.578	1.00	0.00
ATOM	332	O	TYR	20	5.336	-4.768	6.203	1.00	0.00
ATOM	323	CB	TYR	20	3.294	-2.174	5.789	1.00	0.00
ATOM	324	CG	TYR	20	4.209	-1.427	4.845	1.00	0.00
ATOM	325	CD1	TYR	20	4.364	-1.828	3.527	1.00	0.00
ATOM	326	CD2	TYR	20	4.909	-0.305	5.275	1.00	0.00
ATOM	327	CE1	TYR	20	5.193	-1.139	2.663	1.00	0.00
ATOM	328	CE2	TYR	20	5.737	0.391	4.417	1.00	0.00
ATOM	329	CZ	TYR	20	5.875	-0.030	3.113	1.00	0.00
ATOM	330	OH	TYR	20	6.698	0.661	2.256	1.00	0.00
ATOM	333	H	TYR	20	1.195	-3.538	5.937	1.00	0.00
ATOM	334	HA	TYR	20	3.578	-3.926	4.581	1.00	0.00
ATOM	335	1HB	TYR	20	3.613	-1.959	6.798	1.00	0.00
ATOM	336	2HB	TYR	20	2.295	-1.790	5.649	1.00	0.00
ATOM	337	HD1	TYR	20	4.800	0.022	6.299	1.00	0.00
ATOM	338	HD2	TYR	20	3.828	-2.698	3.177	1.00	0.00
ATOM	339	HE1	TYR	20	6.273	1.260	4.769	1.00	0.00
ATOM	340	HE2	TYR	20	5.301	-1.469	1.640	1.00	0.00
ATOM	341	HH	TYR	20	7.385	1.118	2.765	1.00	0.00
ATOM	342	N	LYS	21	3.826	-4.422	7.839	1.00	0.00
ATOM	343	CA	LYS	21	4.650	-5.010	8.889	1.00	0.00
ATOM	349	C	LYS	21	4.819	-6.510	8.678	1.00	0.00
ATOM	350	O	LYS	21	5.933	-7.032	8.739	1.00	0.00
ATOM	344	CB	LYS	21	4.029	-4.745	10.265	1.00	0.00
ATOM	345	CG	LYS	21	5.027	-4.250	11.302	1.00	0.00
ATOM	346	CD	LYS	21	5.392	-5.340	12.299	1.00	0.00
ATOM	347	CE	LYS	21	5.801	-4.757	13.645	1.00	0.00
ATOM	348	NZ	LYS	21	7.240	-4.380	13.679	1.00	0.00
ATOM	351	H	LYS	21	2.942	-4.065	8.071	1.00	0.00
ATOM	352	HA	LYS	21	5.621	-4.541	8.848	1.00	0.00
ATOM	353	1HB	LYS	21	3.584	-5.660	10.630	1.00	0.00
ATOM	354	2HB	LYS	21	3.254	-4.000	10.157	1.00	0.00
ATOM	355	1HG	LYS	21	4.592	-3.416	11.836	1.00	0.00
ATOM	356	2HG	LYS	21	5.925	-3.925	10.796	1.00	0.00



ATOM	357	1HD	LYS	21	6.215	-5.915	11.901	1.00	0.00
ATOM	358	2HD	LYS	21	4.537	-5.983	12.442	1.00	0.00
ATOM	359	1HE	LYS	21	5.613	-5.494	14.413	1.00	0.00
ATOM	360	2HE	LYS	21	5.205	-3.878	13.837	1.00	0.00
ATOM	361	1HZ	LYS	21	7.836	-5.223	13.811	1.00	0.00
ATOM	362	2HZ	LYS	21	7.422	-3.716	14.470	1.00	0.00
ATOM	363	3HZ	LYS	21	7.513	-3.912	12.788	1.00	0.00
ATOM	364	N	LEU	22	3.709	-7.196	8.432	1.00	0.00
ATOM	365	CA	LEU	22	3.728	-8.639	8.216	1.00	0.00
ATOM	370	C	LEU	22	4.527	-8.982	6.970	1.00	0.00
ATOM	371	O	LEU	22	5.345	-9.893	6.982	1.00	0.00
ATOM	366	CB	LEU	22	2.304	-9.186	8.076	1.00	0.00
ATOM	367	CG	LEU	22	1.647	-9.670	9.372	1.00	0.00
ATOM	368	CD1	LEU	22	1.670	-8.582	10.430	1.00	0.00
ATOM	369	CD2	LEU	22	0.222	-10.116	9.097	1.00	0.00
ATOM	372	H	LEU	22	2.848	-6.719	8.400	1.00	0.00
ATOM	373	HA	LEU	22	4.198	-9.099	9.073	1.00	0.00
ATOM	374	1HB	LEU	22	2.329	-10.014	7.383	1.00	0.00
ATOM	375	2HB	LEU	22	1.685	-8.408	7.654	1.00	0.00
ATOM	376	HG	LEU	22	2.193	-10.518	9.758	1.00	0.00
ATOM	377	1HD1	LEU	22	2.239	-7.738	10.068	1.00	0.00
ATOM	378	2HD1	LEU	22	2.128	-8.965	11.331	1.00	0.00
ATOM	379	3HD1	LEU	22	0.659	-8.267	10.646	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.272	-10.341	10.031	1.00	0.00
ATOM	381	2HD2	LEU	22	0.235	-10.999	8.475	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.311	-9.325	8.590	1.00	0.00
ATOM	383	N	ARG	23	4.283	-8.238	5.899	1.00	0.00
ATOM	384	CA	ARG	23	4.971	-8.450	4.631	1.00	0.00
ATOM	392	C	ARG	23	6.473	-8.226	4.779	1.00	0.00
ATOM	393	O	ARG	23	7.266	-8.793	4.030	1.00	0.00
ATOM	385	CB	ARG	23	4.402	-7.514	3.557	1.00	0.00
ATOM	386	CG	ARG	23	3.742	-8.232	2.402	1.00	0.00
ATOM	387	CD	ARG	23	3.464	-7.277	1.249	1.00	0.00
ATOM	388	NE	ARG	23	4.588	-6.375	0.964	1.00	0.00
ATOM	389	CZ	ARG	23	5.765	-6.759	0.452	1.00	0.00
ATOM	390	NH1	ARG	23	6.023	-8.042	0.228	1.00	0.00
ATOM	391	NH2	ARG	23	6.695	-5.852	0.175	1.00	0.00
ATOM	394	H	ARG	23	3.613	-7.518	5.962	1.00	0.00
ATOM	395	HA	ARG	23	4.802	-9.473	4.331	1.00	0.00
ATOM	396	1HB	ARG	23	5.197	-6.908	3.154	1.00	0.00
ATOM	397	2HB	ARG	23	3.667	-6.868	4.011	1.00	0.00
ATOM	398	1HG	ARG	23	2.808	-8.657	2.739	1.00	0.00
ATOM	399	2HG	ARG	23	4.395	-9.018	2.056	1.00	0.00
ATOM	400	1HD	ARG	23	2.593	-6.678	1.498	1.00	0.00
ATOM	401	2HD	ARG	23	3.254	-7.859	0.363	1.00	0.00
ATOM	402	HE	ARG	23	4.445	-5.413	1.144	1.00	0.00
ATOM	403	1HH1	ARG	23	5.343	-8.741	0.439	1.00	0.00
ATOM	404	2HH1	ARG	23	6.914	-8.313	-0.169	1.00	0.00
ATOM	405	1HH2	ARG	23	6.522	-4.880	0.346	1.00	0.00
ATOM	406	2HH2	ARG	23	7.578	-6.140	-0.214	1.00	0.00
ATOM	407	N	GLN	24	6.856	-7.395	5.738	1.00	0.00
ATOM	408	CA	GLN	24	8.266	-7.101	5.963	1.00	0.00
ATOM	414	C	GLN	24	8.936	-8.125	6.883	1.00	0.00
ATOM	415	O	GLN	24	10.159	-8.284	6.843	1.00	0.00
ATOM	409	CB	GLN	24	8.429	-5.698	6.546	1.00	0.00
ATOM	410	CG	GLN	24	8.835	-4.658	5.515	1.00	0.00
ATOM	411	CD	GLN	24	8.697	-3.238	6.029	1.00	0.00
ATOM	412	OE1	GLN	24	9.681	-2.511	6.152	1.00	0.00
ATOM	413	NE2	GLN	24	7.475	-2.834	6.332	1.00	0.00
ATOM	416	H	GLN	24	6.176	-6.960	6.303	1.00	0.00
ATOM	417	HA	GLN	24	8.758	-7.132	5.004	1.00	0.00
ATOM	418	1HB	GLN	24	9.186	-5.725	7.316	1.00	0.00
ATOM	419	2HB	GLN	24	7.491	-5.392	6.987	1.00	0.00
ATOM	420	1HG	GLN	24	8.207	-4.772	4.642	1.00	0.00
ATOM	421	2HG	GLN	24	9.865	-4.826	5.241	1.00	0.00
ATOM	422	1HE2	GLN	24	6.733	-3.469	6.209	1.00	0.00
ATOM	423	2HE2	GLN	24	7.361	-1.923	6.666	1.00	0.00
ATOM	424	N	LYS	25	8.158	-8.806	7.724	1.00	0.00
ATOM	425	CA	LYS	25	8.732	-9.779	8.649	1.00	0.00
ATOM	431	C	LYS	25	7.789	-10.951	8.927	1.00	0.00
ATOM	432	O	LYS	25	7.324	-11.133	10.056	1.00	0.00
ATOM	426	CB	LYS	25	9.091	-9.084	9.965	1.00	0.00
ATOM	427	CG	LYS	25	10.464	-9.453	10.498	1.00	0.00



ATOM	428	CD	LYS	25	10.639	-9.002	11.938	1.00	0.00
ATOM	429	CE	LYS	25	11.260	-10.095	12.791	1.00	0.00
ATOM	430	NZ	LYS	25	12.238	-9.552	13.772	1.00	0.00
ATOM	433	H	LYS	25	7.190	-8.641	7.735	1.00	0.00
ATOM	434	HA	LYS	25	9.637	-10.162	8.203	1.00	0.00
ATOM	435	1HB	LYS	25	8.356	-9.349	10.710	1.00	0.00
ATOM	436	2HB	LYS	25	9.065	-8.015	9.812	1.00	0.00
ATOM	437	1HG	LYS	25	11.216	-8.975	9.887	1.00	0.00
ATOM	438	2HG	LYS	25	10.584	-10.525	10.449	1.00	0.00
ATOM	439	1HD	LYS	25	9.671	-8.746	12.345	1.00	0.00
ATOM	440	2HD	LYS	25	11.280	-8.135	11.957	1.00	0.00
ATOM	441	1HE	LYS	25	11.765	-10.795	12.143	1.00	0.00
ATOM	442	2HE	LYS	25	10.474	-10.605	13.328	1.00	0.00
ATOM	443	1HZ	LYS	25	11.775	-8.866	14.408	1.00	0.00
ATOM	444	2HZ	LYS	25	13.017	-9.072	13.274	1.00	0.00
ATOM	445	3HZ	LYS	25	12.633	-10.325	14.346	1.00	0.00
ATOM	446	N	GLY	26	7.520	-11.757	7.911	1.00	0.00
ATOM	447	CA	GLY	26	6.649	-12.902	8.101	1.00	0.00
ATOM	448	C	GLY	26	5.900	-13.282	6.848	1.00	0.00
ATOM	449	O	GLY	26	6.199	-14.292	6.212	1.00	0.00
ATOM	450	H	GLY	26	7.918	-11.581	7.033	1.00	0.00
ATOM	451	1HA	GLY	26	5.934	-12.669	8.874	1.00	0.00
ATOM	452	2HA	GLY	26	7.242	-13.743	8.418	1.00	0.00
ATOM	453	N	TYR	27	4.933	-12.466	6.486	1.00	0.00
ATOM	454	CA	TYR	27	4.133	-12.706	5.300	1.00	0.00
ATOM	463	C	TYR	27	4.755	-12.013	4.092	1.00	0.00
ATOM	464	O	TYR	27	4.093	-11.258	3.380	1.00	0.00
ATOM	455	CB	TYR	27	2.694	-12.226	5.522	1.00	0.00
ATOM	456	CG	TYR	27	1.673	-12.954	4.673	1.00	0.00
ATOM	457	CD1	TYR	27	1.806	-14.312	4.410	1.00	0.00
ATOM	458	CD2	TYR	27	0.581	-12.286	4.136	1.00	0.00
ATOM	459	CE1	TYR	27	0.878	-14.984	3.634	1.00	0.00
ATOM	460	CE2	TYR	27	-0.353	-12.951	3.360	1.00	0.00
ATOM	461	CZ	TYR	27	-0.198	-14.299	3.112	1.00	0.00
ATOM	462	OH	TYR	27	-1.122	-14.966	2.338	1.00	0.00
ATOM	465	H	TYR	27	4.759	-11.664	7.030	1.00	0.00
ATOM	466	HA	TYR	27	4.124	-13.770	5.121	1.00	0.00
ATOM	467	1HB	TYR	27	2.631	-11.173	5.293	1.00	0.00
ATOM	468	2HB	TYR	27	2.429	-12.379	6.558	1.00	0.00
ATOM	469	HD1	TYR	27	2.649	-14.845	4.820	1.00	0.00
ATOM	470	HD2	TYR	27	0.463	-11.229	4.329	1.00	0.00
ATOM	471	HE1	TYR	27	1.000	-16.039	3.443	1.00	0.00
ATOM	472	HE2	TYR	27	-1.195	-12.414	2.950	1.00	0.00
ATOM	473	HH	TYR	27	-1.276	-15.849	2.709	1.00	0.00
ATOM	474	N	VAL	28	6.033	-12.285	3.864	1.00	0.00
ATOM	475	CA	VAL	28	6.749	-11.695	2.741	1.00	0.00
ATOM	479	C	VAL	28	6.400	-12.445	1.458	1.00	0.00
ATOM	480	O	VAL	28	6.336	-11.860	0.375	1.00	0.00
ATOM	476	CB	VAL	28	8.282	-11.703	2.976	1.00	0.00
ATOM	477	CG1	VAL	28	8.796	-13.115	3.218	1.00	0.00
ATOM	478	CG2	VAL	28	9.017	-11.057	1.808	1.00	0.00
ATOM	481	H	VAL	28	6.506	-12.900	4.466	1.00	0.00
ATOM	482	HA	VAL	28	6.423	-10.671	2.645	1.00	0.00
ATOM	483	HB	VAL	28	8.487	-11.120	3.862	1.00	0.00
ATOM	484	1HG1	VAL	28	9.521	-13.370	2.459	1.00	0.00
ATOM	485	2HG1	VAL	28	7.969	-13.809	3.174	1.00	0.00
ATOM	486	3HG1	VAL	28	9.259	-13.167	4.192	1.00	0.00
ATOM	487	1HG2	VAL	28	8.770	-10.006	1.764	1.00	0.00
ATOM	488	2HG2	VAL	28	8.719	-11.536	0.887	1.00	0.00
ATOM	489	3HG2	VAL	28	10.084	-11.171	1.944	1.00	0.00
ATOM	490	N	CYS	29	6.137	-13.738	1.609	1.00	0.00
ATOM	491	CA	CYS	29	5.757	-14.593	0.494	1.00	0.00
ATOM	494	C	CYS	29	4.393	-14.169	-0.025	1.00	0.00
ATOM	495	O	CYS	29	4.123	-14.197	-1.224	1.00	0.00
ATOM	492	CB	CYS	29	5.717	-16.047	0.958	1.00	0.00
ATOM	493	SG	CYS	29	6.372	-16.295	2.628	1.00	0.00
ATOM	496	H	CYS	29	6.183	-14.127	2.504	1.00	0.00
ATOM	497	HA	CYS	29	6.491	-14.482	-0.290	1.00	0.00
ATOM	498	1HB	CYS	29	6.300	-16.648	0.282	1.00	0.00
ATOM	499	2HB	CYS	29	4.695	-16.394	0.951	1.00	0.00
ATOM	500	HG	CYS	29	5.387	-16.775	3.387	1.00	0.00
ATOM	501	N	GLY	30	3.549	-13.748	0.904	1.00	0.00
ATOM	502	CA	GLY	30	2.224	-13.287	0.563	1.00	0.00



ATOM	503	C	GLY	30	2.196	-11.794	0.328	1.00	0.00
ATOM	504	O	GLY	30	1.456	-11.061	0.988	1.00	0.00
ATOM	505	H	GLY	30	3.841	-13.735	1.837	1.00	0.00
ATOM	506	1HA	GLY	30	1.551	-13.525	1.368	1.00	0.00
ATOM	507	2HA	GLY	30	1.894	-13.793	-0.333	1.00	0.00
ATOM	508	N	ALA	31	3.015	-11.347	-0.612	1.00	0.00
ATOM	509	CA	ALA	31	3.103	-9.934	-0.957	1.00	0.00
ATOM	511	C	ALA	31	1.751	-9.422	-1.441	1.00	0.00
ATOM	512	O	ALA	31	1.137	-10.021	-2.323	1.00	0.00
ATOM	510	CB	ALA	31	4.167	-9.718	-2.024	1.00	0.00
ATOM	513	H	ALA	31	3.577	-11.993	-1.088	1.00	0.00
ATOM	514	HA	ALA	31	3.393	-9.387	-0.069	1.00	0.00
ATOM	515	1HB	ALA	31	3.812	-10.100	-2.970	1.00	0.00
ATOM	516	2HB	ALA	31	5.071	-10.240	-1.743	1.00	0.00
ATOM	517	3HB	ALA	31	4.375	-8.662	-2.118	1.00	0.00
ATOM	518	N	GLY	32	1.278	-8.326	-0.859	1.00	0.00
ATOM	519	CA	GLY	32	-0.011	-7.794	-1.266	1.00	0.00
ATOM	520	C	GLY	32	-0.569	-6.770	-0.298	1.00	0.00
ATOM	521	O	GLY	32	-0.786	-5.625	-0.680	1.00	0.00
ATOM	522	H	GLY	32	1.798	-7.882	-0.149	1.00	0.00
ATOM	523	1HA	GLY	32	-0.713	-8.612	-1.348	1.00	0.00
ATOM	524	2HA	GLY	32	0.096	-7.331	-2.235	1.00	0.00
ATOM	525	N	PRO	33	-0.820	-7.146	0.972	1.00	0.00
ATOM	526	CA	PRO	33	-1.363	-6.214	1.964	1.00	0.00
ATOM	530	C	PRO	33	-0.445	-5.013	2.145	1.00	0.00
ATOM	531	O	PRO	33	-0.868	-3.868	2.021	1.00	0.00
ATOM	527	CB	PRO	33	-1.438	-7.048	3.248	1.00	0.00
ATOM	528	CG	PRO	33	-1.444	-8.464	2.788	1.00	0.00
ATOM	529	CD	PRO	33	-0.607	-8.488	1.541	1.00	0.00
ATOM	532	HA	PRO	33	-2.350	-5.873	1.689	1.00	0.00
ATOM	533	1HB	PRO	33	-2.343	-6.806	3.786	1.00	0.00
ATOM	534	2HB	PRO	33	-0.578	-6.837	3.866	1.00	0.00
ATOM	535	1HG	PRO	33	-2.453	-8.778	2.571	1.00	0.00
ATOM	536	2HG	PRO	33	-1.005	-9.098	3.546	1.00	0.00
ATOM	537	1HD	PRO	33	-0.952	-9.252	0.865	1.00	0.00
ATOM	538	2HD	PRO	33	0.433	-8.642	1.788	1.00	0.00
ATOM	539	N	GLY	34	0.822	-5.294	2.405	1.00	0.00
ATOM	540	CA	GLY	34	1.797	-4.240	2.566	1.00	0.00
ATOM	541	C	GLY	34	2.495	-3.914	1.264	1.00	0.00
ATOM	542	O	GLY	34	3.713	-3.744	1.233	1.00	0.00
ATOM	543	H	GLY	34	1.102	-6.226	2.471	1.00	0.00
ATOM	544	1HA	GLY	34	2.536	-4.555	3.288	1.00	0.00
ATOM	545	2HA	GLY	34	1.304	-3.354	2.935	1.00	0.00
ATOM	546	N	GLU	35	1.733	-3.852	0.179	1.00	0.00
ATOM	547	CA	GLU	35	2.305	-3.554	-1.128	1.00	0.00
ATOM	553	C	GLU	35	2.383	-2.042	-1.341	1.00	0.00
ATOM	554	O	GLU	35	3.129	-1.560	-2.196	1.00	0.00
ATOM	548	CB	GLU	35	1.488	-4.217	-2.248	1.00	0.00
ATOM	549	CG	GLU	35	0.325	-3.375	-2.768	1.00	0.00
ATOM	550	CD	GLU	35	0.212	-3.394	-4.282	1.00	0.00
ATOM	551	OE1	GLU	35	0.982	-4.135	-4.934	1.00	0.00
ATOM	552	OE2	GLU	35	-0.651	-2.673	-4.828	1.00	0.00
ATOM	555	H	GLU	35	0.769	-4.021	0.255	1.00	0.00
ATOM	556	HA	GLU	35	3.307	-3.959	-1.139	1.00	0.00
ATOM	557	1HB	GLU	35	1.089	-5.149	-1.877	1.00	0.00
ATOM	558	2HB	GLU	35	2.147	-4.427	-3.078	1.00	0.00
ATOM	559	1HG	GLU	35	0.462	-2.354	-2.444	1.00	0.00
ATOM	560	2HG	GLU	35	-0.593	-3.762	-2.353	1.00	0.00
ATOM	561	N	GLY	36	1.618	-1.300	-0.550	1.00	0.00
ATOM	562	CA	GLY	36	1.619	0.143	-0.657	1.00	0.00
ATOM	563	C	GLY	36	2.263	0.791	0.549	1.00	0.00
ATOM	564	O	GLY	36	2.183	0.253	1.651	1.00	0.00
ATOM	565	H	GLY	36	1.055	-1.737	0.122	1.00	0.00
ATOM	566	1HA	GLY	36	0.601	0.491	-0.742	1.00	0.00
ATOM	567	2HA	GLY	36	2.166	0.429	-1.543	1.00	0.00
ATOM	568	N	PRO	37	2.929	1.939	0.370	1.00	0.00
ATOM	569	CA	PRO	37	3.599	2.640	1.450	1.00	0.00
ATOM	573	C	PRO	37	2.729	3.722	2.096	1.00	0.00
ATOM	574	O	PRO	37	1.494	3.701	2.009	1.00	0.00
ATOM	570	CB	PRO	37	4.788	3.265	0.726	1.00	0.00
ATOM	571	CG	PRO	37	4.287	3.556	-0.655	1.00	0.00
ATOM	572	CD	PRO	37	3.108	2.639	-0.910	1.00	0.00
ATOM	575	HA	PRO	37	3.954	1.959	2.209	1.00	0.00



ATOM	576	1HB	PRO	37	5.609	2.566	0.707	1.00	0.00
ATOM	577	2HB	PRO	37	5.087	4.168	1.236	1.00	0.00
ATOM	578	1HG	PRO	37	5.071	3.360	-1.373	1.00	0.00
ATOM	579	2HG	PRO	37	3.976	4.587	-0.718	1.00	0.00
ATOM	580	1HD	PRO	37	3.337	1.942	-1.703	1.00	0.00
ATOM	581	2HD	PRO	37	2.230	3.217	-1.158	1.00	0.00
ATOM	582	N	ALA	38	3.386	4.672	2.742	1.00	0.00
ATOM	583	CA	ALA	38	2.706	5.768	3.408	1.00	0.00
ATOM	585	C	ALA	38	2.367	6.884	2.426	1.00	0.00
ATOM	586	O	ALA	38	3.205	7.728	2.117	1.00	0.00
ATOM	584	CB	ALA	38	3.575	6.292	4.533	1.00	0.00
ATOM	587	H	ALA	38	4.369	4.637	2.770	1.00	0.00
ATOM	588	HA	ALA	38	1.790	5.389	3.839	1.00	0.00
ATOM	589	1HB	ALA	38	3.196	5.933	5.478	1.00	0.00
ATOM	590	2HB	ALA	38	3.561	7.372	4.526	1.00	0.00
ATOM	591	3HB	ALA	38	4.589	5.944	4.398	1.00	0.00
ATOM	592	N	ALA	39	1.135	6.874	1.931	1.00	0.00
ATOM	593	CA	ALA	39	0.689	7.883	0.975	1.00	0.00
ATOM	595	C	ALA	39	-0.698	8.415	1.321	1.00	0.00
ATOM	596	O	ALA	39	-1.059	9.526	0.938	1.00	0.00
ATOM	594	CB	ALA	39	0.690	7.305	-0.431	1.00	0.00
ATOM	597	H	ALA	39	0.519	6.168	2.203	1.00	0.00
ATOM	598	HA	ALA	39	1.394	8.701	1.002	1.00	0.00
ATOM	599	1HB	ALA	39	-0.171	6.666	-0.558	1.00	0.00
ATOM	600	2HB	ALA	39	1.592	6.730	-0.584	1.00	0.00
ATOM	601	3HB	ALA	39	0.650	8.110	-1.151	1.00	0.00
ATOM	602	N	ASP	40	-1.474	7.614	2.039	1.00	0.00
ATOM	603	CA	ASP	40	-2.827	7.994	2.422	1.00	0.00
ATOM	608	C	ASP	40	-2.814	8.937	3.617	1.00	0.00
ATOM	609	O	ASP	40	-1.814	9.024	4.335	1.00	0.00
ATOM	604	CB	ASP	40	-3.649	6.748	2.751	1.00	0.00
ATOM	605	CG	ASP	40	-4.112	6.013	1.511	1.00	0.00
ATOM	606	OD1	ASP	40	-4.873	6.603	0.718	1.00	0.00
ATOM	607	OD2	ASP	40	-3.706	4.848	1.330	1.00	0.00
ATOM	610	H	ASP	40	-1.138	6.748	2.314	1.00	0.00
ATOM	611	HA	ASP	40	-3.279	8.500	1.582	1.00	0.00
ATOM	612	1HB	ASP	40	-4.518	7.045	3.318	1.00	0.00
ATOM	613	2HB	ASP	40	-3.048	6.075	3.345	1.00	0.00
ATOM	614	N	PRO	41	-3.936	9.634	3.862	1.00	0.00
ATOM	615	CA	PRO	41	-4.076	10.569	4.978	1.00	0.00
ATOM	619	C	PRO	41	-4.318	9.851	6.301	1.00	0.00
ATOM	620	O	PRO	41	-5.240	10.173	7.051	1.00	0.00
ATOM	616	CB	PRO	41	-5.277	11.434	4.587	1.00	0.00
ATOM	617	CG	PRO	41	-6.043	10.659	3.562	1.00	0.00
ATOM	618	CD	PRO	41	-5.166	9.536	3.067	1.00	0.00
ATOM	621	HA	PRO	41	-3.199	11.194	5.073	1.00	0.00
ATOM	622	1HB	PRO	41	-4.924	12.372	4.184	1.00	0.00
ATOM	623	2HB	PRO	41	-5.880	11.623	5.462	1.00	0.00
ATOM	624	1HG	PRO	41	-6.307	11.312	2.741	1.00	0.00
ATOM	625	2HG	PRO	41	-6.937	10.255	4.011	1.00	0.00
ATOM	626	1HD	PRO	41	-4.948	9.654	2.017	1.00	0.00
ATOM	627	2HD	PRO	41	-5.647	8.585	3.239	1.00	0.00
ATOM	628	N	LEU	42	-3.456	8.875	6.561	1.00	0.00
ATOM	629	CA	LEU	42	-3.486	8.061	7.771	1.00	0.00
ATOM	634	C	LEU	42	-2.338	7.066	7.707	1.00	0.00
ATOM	635	O	LEU	42	-1.752	6.701	8.722	1.00	0.00
ATOM	630	CB	LEU	42	-4.814	7.302	7.939	1.00	0.00
ATOM	631	CG	LEU	42	-5.620	7.059	6.656	1.00	0.00
ATOM	632	CD1	LEU	42	-5.342	5.675	6.093	1.00	0.00
ATOM	633	CD2	LEU	42	-7.108	7.237	6.919	1.00	0.00
ATOM	636	H	LEU	42	-2.750	8.705	5.904	1.00	0.00
ATOM	637	HA	LEU	42	-3.332	8.717	8.616	1.00	0.00
ATOM	638	1HB	LEU	42	-5.435	7.861	8.624	1.00	0.00
ATOM	639	2HB	LEU	42	-4.593	6.343	8.385	1.00	0.00
ATOM	640	HG	LEU	42	-5.324	7.785	5.912	1.00	0.00
ATOM	641	1HD1	LEU	42	-6.118	5.411	5.392	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.323	4.956	6.899	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.386	5.677	5.590	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.662	6.489	6.370	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.416	8.220	6.597	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.303	7.126	7.975	1.00	0.00
ATOM	647	N	HIS	43	-2.018	6.649	6.485	1.00	0.00
ATOM	648	CA	HIS	43	-0.930	5.706	6.243	1.00	0.00



ATOM	655	C	HIS	43	0.383	6.278	6.761	1.00	0.00
ATOM	656	O	HIS	43	1.024	5.703	7.638	1.00	0.00
ATOM	649	CB	HIS	43	-0.790	5.441	4.745	1.00	0.00
ATOM	650	CG	HIS	43	-1.573	4.270	4.217	1.00	0.00
ATOM	651	ND1	HIS	43	-1.141	3.510	3.149	1.00	0.00
ATOM	652	CD2	HIS	43	-2.788	3.769	4.563	1.00	0.00
ATOM	653	CE1	HIS	43	-2.056	2.607	2.857	1.00	0.00
ATOM	654	NE2	HIS	43	-3.066	2.738	3.699	1.00	0.00
ATOM	657	H	HIS	43	-2.527	6.992	5.724	1.00	0.00
ATOM	658	HA	HIS	43	-1.148	4.784	6.760	1.00	0.00
ATOM	659	1HB	HIS	43	0.251	5.276	4.527	1.00	0.00
ATOM	660	2HB	HIS	43	-1.122	6.317	4.208	1.00	0.00
ATOM	661	HD1	HIS	43	-0.268	3.587	2.699	1.00	0.00
ATOM	662	HD2	HIS	43	-3.426	4.117	5.370	1.00	0.00
ATOM	663	HE1	HIS	43	-1.993	1.885	2.056	1.00	0.00
ATOM	664	HE2	HIS	43	-3.740	2.045	3.860	1.00	0.00
ATOM	665	N	GLN	44	0.773	7.426	6.203	1.00	0.00
ATOM	666	CA	GLN	44	2.014	8.100	6.600	1.00	0.00
ATOM	672	C	GLN	44	2.007	8.427	8.087	1.00	0.00
ATOM	673	O	GLN	44	3.059	8.547	8.714	1.00	0.00
ATOM	667	CB	GLN	44	2.236	9.389	5.792	1.00	0.00
ATOM	668	CG	GLN	44	1.182	9.659	4.731	1.00	0.00
ATOM	669	CD	GLN	44	0.929	11.141	4.521	1.00	0.00
ATOM	670	OE1	GLN	44	1.453	11.983	5.248	1.00	0.00
ATOM	671	NE2	GLN	44	0.117	11.466	3.527	1.00	0.00
ATOM	674	H	GLN	44	0.214	7.828	5.501	1.00	0.00
ATOM	675	HA	GLN	44	2.829	7.422	6.403	1.00	0.00
ATOM	676	1HB	GLN	44	3.197	9.325	5.302	1.00	0.00
ATOM	677	2HB	GLN	44	2.249	10.226	6.473	1.00	0.00
ATOM	678	1HG	GLN	44	0.256	9.190	5.033	1.00	0.00
ATOM	679	2HG	GLN	44	1.512	9.232	3.796	1.00	0.00
ATOM	680	1HE2	GLN	44	-0.272	10.746	2.987	1.00	0.00
ATOM	681	2HE2	GLN	44	-0.064	12.422	3.368	1.00	0.00
ATOM	682	N	ALA	45	0.813	8.552	8.642	1.00	0.00
ATOM	683	CA	ALA	45	0.659	8.856	10.054	1.00	0.00
ATOM	685	C	ALA	45	0.989	7.641	10.911	1.00	0.00
ATOM	686	O	ALA	45	1.779	7.731	11.855	1.00	0.00
ATOM	684	CB	ALA	45	-0.754	9.336	10.332	1.00	0.00
ATOM	687	H	ALA	45	0.013	8.427	8.086	1.00	0.00
ATOM	688	HA	ALA	45	1.342	9.656	10.300	1.00	0.00
ATOM	689	1HB	ALA	45	-1.459	8.699	9.818	1.00	0.00
ATOM	690	2HB	ALA	45	-0.866	10.352	9.982	1.00	0.00
ATOM	691	3HB	ALA	45	-0.944	9.300	11.394	1.00	0.00
ATOM	692	N	MET	46	0.384	6.506	10.582	1.00	0.00
ATOM	693	CA	MET	46	0.616	5.278	11.333	1.00	0.00
ATOM	698	C	MET	46	2.047	4.785	11.165	1.00	0.00
ATOM	699	O	MET	46	2.651	4.280	12.111	1.00	0.00
ATOM	694	CB	MET	46	-0.357	4.191	10.893	1.00	0.00
ATOM	695	CG	MET	46	-0.827	3.316	12.038	1.00	0.00
ATOM	696	SD	MET	46	-2.403	2.531	11.701	1.00	0.00
ATOM	697	CE	MET	46	-3.498	3.715	12.462	1.00	0.00
ATOM	700	H	MET	46	-0.242	6.491	9.814	1.00	0.00
ATOM	701	HA	MET	46	0.446	5.495	12.378	1.00	0.00
ATOM	702	1HB	MET	46	0.127	3.562	10.161	1.00	0.00
ATOM	703	2HB	MET	46	-1.223	4.655	10.443	1.00	0.00
ATOM	704	1HG	MET	46	-0.929	3.928	12.922	1.00	0.00
ATOM	705	2HG	MET	46	-0.094	2.551	12.217	1.00	0.00
ATOM	706	1HE	MET	46	-4.476	3.644	12.009	1.00	0.00
ATOM	707	2HE	MET	46	-3.106	4.712	12.320	1.00	0.00
ATOM	708	3HE	MET	46	-3.576	3.505	13.519	1.00	0.00
ATOM	709	N	ARG	47	2.579	4.932	9.958	1.00	0.00
ATOM	710	CA	ARG	47	3.937	4.495	9.655	1.00	0.00
ATOM	718	C	ARG	47	4.962	5.181	10.558	1.00	0.00
ATOM	719	O	ARG	47	5.904	4.540	11.031	1.00	0.00
ATOM	711	CB	ARG	47	4.271	4.777	8.186	1.00	0.00
ATOM	712	CG	ARG	47	4.621	3.531	7.383	1.00	0.00
ATOM	713	CD	ARG	47	5.573	2.616	8.141	1.00	0.00
ATOM	714	NE	ARG	47	6.957	2.765	7.690	1.00	0.00
ATOM	715	CZ	ARG	47	8.016	2.779	8.506	1.00	0.00
ATOM	716	NH1	ARG	47	7.854	2.715	9.818	1.00	0.00
ATOM	717	NH2	ARG	47	9.243	2.873	8.011	1.00	0.00
ATOM	720	H	ARG	47	2.038	5.338	9.243	1.00	0.00
ATOM	721	HA	ARG	47	3.984	3.431	9.825	1.00	0.00



ATOM	722	1HB	ARG	47	5.110	5.454	8.143	1.00	0.00
ATOM	723	2HB	ARG	47	3.417	5.248	7.721	1.00	0.00
ATOM	724	1HG	ARG	47	5.089	3.833	6.457	1.00	0.00
ATOM	725	2HG	ARG	47	3.714	2.988	7.166	1.00	0.00
ATOM	726	1HD	ARG	47	5.263	1.592	7.990	1.00	0.00
ATOM	727	2HD	ARG	47	5.519	2.854	9.194	1.00	0.00
ATOM	728	HE	ARG	47	7.105	2.852	6.716	1.00	0.00
ATOM	729	1HH1	ARG	47	6.938	2.658	10.214	1.00	0.00
ATOM	730	2HH1	ARG	47	8.666	2.735	10.430	1.00	0.00
ATOM	731	1HH2	ARG	47	9.390	2.936	7.016	1.00	0.00
ATOM	732	2HH2	ARG	47	10.034	2.878	8.631	1.00	0.00
ATOM	733	N	ALA	48	4.771	6.474	10.801	1.00	0.00
ATOM	734	CA	ALA	48	5.683	7.238	11.643	1.00	0.00
ATOM	736	C	ALA	48	5.428	6.948	13.109	1.00	0.00
ATOM	737	O	ALA	48	6.326	7.036	13.944	1.00	0.00
ATOM	735	CB	ALA	48	5.538	8.725	11.368	1.00	0.00
ATOM	738	H	ALA	48	3.992	6.924	10.410	1.00	0.00
ATOM	739	HA	ALA	48	6.695	6.943	11.397	1.00	0.00
ATOM	740	1HB	ALA	48	5.784	8.927	10.335	1.00	0.00
ATOM	741	2HB	ALA	48	6.206	9.277	12.012	1.00	0.00
ATOM	742	3HB	ALA	48	4.519	9.029	11.560	1.00	0.00
ATOM	743	N	ALA	49	4.196	6.588	13.411	1.00	0.00
ATOM	744	CA	ALA	49	3.822	6.264	14.769	1.00	0.00
ATOM	746	C	ALA	49	4.490	4.968	15.184	1.00	0.00
ATOM	747	O	ALA	49	5.302	4.949	16.110	1.00	0.00
ATOM	745	CB	ALA	49	2.314	6.151	14.886	1.00	0.00
ATOM	748	H	ALA	49	3.524	6.526	12.698	1.00	0.00
ATOM	749	HA	ALA	49	4.162	7.058	15.417	1.00	0.00
ATOM	750	1HB	ALA	49	1.893	7.132	15.054	1.00	0.00
ATOM	751	2HB	ALA	49	2.064	5.504	15.714	1.00	0.00
ATOM	752	3HB	ALA	49	1.912	5.738	13.972	1.00	0.00
ATOM	753	N	GLY	50	4.139	3.895	14.481	1.00	0.00
ATOM	754	CA	GLY	50	4.702	2.587	14.760	1.00	0.00
ATOM	755	C	GLY	50	6.211	2.607	14.845	1.00	0.00
ATOM	756	O	GLY	50	6.776	2.041	15.764	1.00	0.00
ATOM	757	H	GLY	50	3.480	3.995	13.758	1.00	0.00
ATOM	758	1HA	GLY	50	4.405	1.906	13.977	1.00	0.00
ATOM	759	2HA	GLY	50	4.307	2.233	15.700	1.00	0.00
ATOM	760	N	ASP	51	6.855	3.269	13.892	1.00	0.00
ATOM	761	CA	ASP	51	8.315	3.370	13.862	1.00	0.00
ATOM	766	C	ASP	51	8.867	3.966	15.157	1.00	0.00
ATOM	767	O	ASP	51	9.783	3.410	15.776	1.00	0.00
ATOM	762	CB	ASP	51	8.745	4.233	12.674	1.00	0.00
ATOM	763	CG	ASP	51	10.097	3.834	12.124	1.00	0.00
ATOM	764	OD1	ASP	51	11.122	4.283	12.672	1.00	0.00
ATOM	765	OD2	ASP	51	10.130	3.072	11.131	1.00	0.00
ATOM	768	H	ASP	51	6.339	3.706	13.187	1.00	0.00
ATOM	769	HA	ASP	51	8.717	2.377	13.739	1.00	0.00
ATOM	770	1HB	ASP	51	8.787	5.268	12.982	1.00	0.00
ATOM	771	2HB	ASP	51	8.013	4.130	11.884	1.00	0.00
ATOM	772	N	GLU	52	8.302	5.094	15.568	1.00	0.00
ATOM	773	CA	GLU	52	8.739	5.762	16.785	1.00	0.00
ATOM	779	C	GLU	52	8.477	4.894	18.017	1.00	0.00
ATOM	780	O	GLU	52	9.349	4.746	18.877	1.00	0.00
ATOM	774	CB	GLU	52	8.035	7.119	16.921	1.00	0.00
ATOM	775	CG	GLU	52	7.657	7.491	18.350	1.00	0.00
ATOM	776	CD	GLU	52	7.862	8.959	18.649	1.00	0.00
ATOM	777	OE1	GLU	52	6.955	9.761	18.343	1.00	0.00
ATOM	778	OE2	GLU	52	8.925	9.310	19.201	1.00	0.00
ATOM	781	H	GLU	52	7.573	5.489	15.039	1.00	0.00
ATOM	782	HA	GLU	52	9.804	5.928	16.702	1.00	0.00
ATOM	783	1HB	GLU	52	7.132	7.099	16.329	1.00	0.00
ATOM	784	2HB	GLU	52	8.688	7.888	16.535	1.00	0.00
ATOM	785	1HG	GLU	52	8.262	6.911	19.033	1.00	0.00
ATOM	786	2HG	GLU	52	6.616	7.253	18.506	1.00	0.00
ATOM	787	N	PHE	53	7.278	4.326	18.104	1.00	0.00
ATOM	788	CA	PHE	53	6.924	3.488	19.244	1.00	0.00
ATOM	796	C	PHE	53	7.710	2.192	19.239	1.00	0.00
ATOM	797	O	PHE	53	8.093	1.704	20.290	1.00	0.00
ATOM	789	CB	PHE	53	5.433	3.180	19.262	1.00	0.00
ATOM	790	CG	PHE	53	4.800	3.385	20.610	1.00	0.00
ATOM	791	CD1	PHE	53	4.596	4.663	21.105	1.00	0.00
ATOM	792	CD2	PHE	53	4.411	2.302	21.381	1.00	0.00



ATOM	793	CE1	PHE	53	4.015	4.857	22.344	1.00	0.00
ATOM	794	CE2	PHE	53	3.829	2.489	22.621	1.00	0.00
ATOM	795	CZ	PHE	53	3.632	3.768	23.103	1.00	0.00
ATOM	798	H	PHE	53	6.619	4.479	17.391	1.00	0.00
ATOM	799	HA	PHE	53	7.175	4.037	20.139	1.00	0.00
ATOM	800	1HB	PHE	53	5.284	2.150	18.975	1.00	0.00
ATOM	801	2HB	PHE	53	4.931	3.823	18.557	1.00	0.00
ATOM	802	HD1	PHE	53	4.894	5.514	20.512	1.00	0.00
ATOM	803	HD2	PHE	53	4.564	1.300	21.006	1.00	0.00
ATOM	804	HE1	PHE	53	3.862	5.858	22.719	1.00	0.00
ATOM	805	HE2	PHE	53	3.530	1.636	23.213	1.00	0.00
ATOM	806	HZ	PHE	53	3.179	3.916	24.072	1.00	0.00
ATOM	807	N	GLU	54	7.956	1.648	18.057	1.00	0.00
ATOM	808	CA	GLU	54	8.709	0.410	17.919	1.00	0.00
ATOM	814	C	GLU	54	10.110	0.596	18.501	1.00	0.00
ATOM	815	O	GLU	54	10.696	-0.327	19.062	1.00	0.00
ATOM	809	CB	GLU	54	8.768	-0.011	16.441	1.00	0.00
ATOM	810	CG	GLU	54	9.669	-1.204	16.166	1.00	0.00
ATOM	811	CD	GLU	54	9.010	-2.238	15.278	1.00	0.00
ATOM	812	OE1	GLU	54	7.848	-2.613	15.542	1.00	0.00
ATOM	813	OE2	GLU	54	9.646	-2.685	14.297	1.00	0.00
ATOM	816	H	GLU	54	7.621	2.093	17.245	1.00	0.00
ATOM	817	HA	GLU	54	8.196	-0.355	18.485	1.00	0.00
ATOM	818	1HB	GLU	54	9.111	0.828	15.846	1.00	0.00
ATOM	819	2HB	GLU	54	7.767	-0.270	16.121	1.00	0.00
ATOM	820	1HG	GLU	54	9.925	-1.671	17.108	1.00	0.00
ATOM	821	2HG	GLU	54	10.569	-0.858	15.681	1.00	0.00
ATOM	822	N	THR	55	10.622	1.814	18.382	1.00	0.00
ATOM	823	CA	THR	55	11.935	2.153	18.904	1.00	0.00
ATOM	827	C	THR	55	11.873	2.492	20.404	1.00	0.00
ATOM	828	O	THR	55	12.865	2.363	21.127	1.00	0.00
ATOM	824	CB	THR	55	12.526	3.348	18.124	1.00	0.00
ATOM	825	OG1	THR	55	12.552	3.051	16.720	1.00	0.00
ATOM	826	CG2	THR	55	13.934	3.680	18.596	1.00	0.00
ATOM	829	H	THR	55	10.091	2.510	17.930	1.00	0.00
ATOM	830	HA	THR	55	12.583	1.299	18.763	1.00	0.00
ATOM	831	HB	THR	55	11.895	4.211	18.289	1.00	0.00
ATOM	832	HG1	THR	55	11.656	3.111	16.358	1.00	0.00
ATOM	833	1HG2	THR	55	14.650	3.117	18.017	1.00	0.00
ATOM	834	2HG2	THR	55	14.034	3.421	19.641	1.00	0.00
ATOM	835	3HG2	THR	55	14.117	4.736	18.467	1.00	0.00
ATOM	836	N	ARG	56	10.712	2.944	20.866	1.00	0.00
ATOM	837	CA	ARG	56	10.540	3.323	22.267	1.00	0.00
ATOM	845	C	ARG	56	10.044	2.158	23.132	1.00	0.00
ATOM	846	O	ARG	56	10.318	2.107	24.333	1.00	0.00
ATOM	838	CB	ARG	56	9.552	4.488	22.371	1.00	0.00
ATOM	839	CG	ARG	56	10.175	5.854	22.119	1.00	0.00
ATOM	840	CD	ARG	56	9.307	6.968	22.685	1.00	0.00
ATOM	841	NE	ARG	56	9.326	8.171	21.855	1.00	0.00
ATOM	842	CZ	ARG	56	9.410	9.407	22.340	1.00	0.00
ATOM	843	NH1	ARG	56	9.523	9.605	23.649	1.00	0.00
ATOM	844	NH2	ARG	56	9.381	10.442	21.512	1.00	0.00
ATOM	847	H	ARG	56	9.958	3.043	20.247	1.00	0.00
ATOM	848	HA	ARG	56	11.498	3.648	22.641	1.00	0.00
ATOM	849	1HB	ARG	56	9.122	4.491	23.361	1.00	0.00
ATOM	850	2HB	ARG	56	8.764	4.340	21.647	1.00	0.00
ATOM	851	1HG	ARG	56	10.282	5.999	21.055	1.00	0.00
ATOM	852	2HG	ARG	56	11.145	5.891	22.591	1.00	0.00
ATOM	853	1HD	ARG	56	9.667	7.221	23.671	1.00	0.00
ATOM	854	2HD	ARG	56	8.291	6.611	22.758	1.00	0.00
ATOM	855	HE	ARG	56	9.256	8.052	20.875	1.00	0.00
ATOM	856	1HH1	ARG	56	9.549	8.828	24.274	1.00	0.00
ATOM	857	2HH1	ARG	56	9.572	10.552	24.021	1.00	0.00
ATOM	858	1HH2	ARG	56	9.290	10.285	20.512	1.00	0.00
ATOM	859	2HH2	ARG	56	9.449	11.378	21.865	1.00	0.00
ATOM	860	N	PHE	57	9.296	1.247	22.533	1.00	0.00
ATOM	861	CA	PHE	57	8.741	0.108	23.242	1.00	0.00
ATOM	869	C	PHE	57	9.742	-1.034	23.306	1.00	0.00
ATOM	870	O	PHE	57	9.871	-1.823	22.373	1.00	0.00
ATOM	862	CB	PHE	57	7.450	-0.365	22.569	1.00	0.00
ATOM	863	CG	PHE	57	6.278	-0.480	23.506	1.00	0.00
ATOM	864	CD1	PHE	57	6.267	0.195	24.717	1.00	0.00
ATOM	865	CD2	PHE	57	5.187	-1.263	23.169	1.00	0.00



ATOM	866	CE1	PHE	57	5.190	0.089	25.574	1.00	0.00
ATOM	867	CE2	PHE	57	4.106	-1.372	24.022	1.00	0.00
ATOM	868	CZ	PHE	57	4.108	-0.696	25.227	1.00	0.00
ATOM	871	H	PHE	57	9.097	1.348	21.579	1.00	0.00
ATOM	872	HA	PHE	57	8.513	0.425	24.249	1.00	0.00
ATOM	873	1HB	PHE	57	7.619	-1.338	22.128	1.00	0.00
ATOM	874	2HB	PHE	57	7.183	0.333	21.791	1.00	0.00
ATOM	875	HD1	PHE	57	5.185	-1.792	22.228	1.00	0.00
ATOM	876	HD2	PHE	57	7.113	0.809	24.990	1.00	0.00
ATOM	877	HE1	PHE	57	3.260	-1.985	23.748	1.00	0.00
ATOM	878	HE2	PHE	57	5.193	0.619	26.515	1.00	0.00
ATOM	879	HZ	PHE	57	3.263	-0.780	25.895	1.00	0.00
ATOM	880	N	ARG	58	10.445	-1.110	24.423	1.00	0.00
ATOM	881	CA	ARG	58	11.449	-2.148	24.642	1.00	0.00
ATOM	889	C	ARG	58	10.804	-3.513	24.883	1.00	0.00
ATOM	890	O	ARG	58	11.495	-4.522	25.015	1.00	0.00
ATOM	882	CB	ARG	58	12.339	-1.781	25.829	1.00	0.00
ATOM	883	CG	ARG	58	13.195	-0.548	25.593	1.00	0.00
ATOM	884	CD	ARG	58	13.634	0.075	26.906	1.00	0.00
ATOM	885	NE	ARG	58	14.296	1.365	26.716	1.00	0.00
ATOM	886	CZ	ARG	58	15.604	1.561	26.881	1.00	0.00
ATOM	887	NH1	ARG	58	16.408	0.537	27.145	1.00	0.00
ATOM	888	NH2	ARG	58	16.110	2.780	26.745	1.00	0.00
ATOM	891	H	ARG	58	10.287	-0.440	25.117	1.00	0.00
ATOM	892	HA	ARG	58	12.060	-2.206	23.752	1.00	0.00
ATOM	893	1HB	ARG	58	12.994	-2.613	26.042	1.00	0.00
ATOM	894	2HB	ARG	58	11.713	-1.598	26.689	1.00	0.00
ATOM	895	1HG	ARG	58	12.620	0.176	25.034	1.00	0.00
ATOM	896	2HG	ARG	58	14.071	-0.831	25.028	1.00	0.00
ATOM	897	1HD	ARG	58	14.317	-0.601	27.398	1.00	0.00
ATOM	898	2HD	ARG	58	12.762	0.218	27.530	1.00	0.00
ATOM	899	HE	ARG	58	13.728	2.133	26.471	1.00	0.00
ATOM	900	1HH1	ARG	58	16.035	-0.398	27.219	1.00	0.00
ATOM	901	2HH1	ARG	58	17.396	0.689	27.272	1.00	0.00
ATOM	902	1HH2	ARG	58	15.510	3.553	26.515	1.00	0.00
ATOM	903	2HH2	ARG	58	17.094	2.935	26.871	1.00	0.00
ATOM	904	N	ARG	59	9.481	-3.539	24.934	1.00	0.00
ATOM	905	CA	ARG	59	8.747	-4.776	25.149	1.00	0.00
ATOM	913	C	ARG	59	7.621	-4.889	24.133	1.00	0.00
ATOM	914	O	ARG	59	6.503	-4.440	24.373	1.00	0.00
ATOM	906	CB	ARG	59	8.193	-4.837	26.572	1.00	0.00
ATOM	907	CG	ARG	59	8.924	-5.832	27.455	1.00	0.00
ATOM	908	CD	ARG	59	7.973	-6.535	28.405	1.00	0.00
ATOM	909	NE	ARG	59	8.181	-6.121	29.789	1.00	0.00
ATOM	910	CZ	ARG	59	7.239	-6.157	30.727	1.00	0.00
ATOM	911	NH1	ARG	59	6.023	-6.612	30.437	1.00	0.00
ATOM	912	NH2	ARG	59	7.519	-5.734	31.951	1.00	0.00
ATOM	915	H	ARG	59	8.982	-2.707	24.815	1.00	0.00
ATOM	916	HA	ARG	59	9.433	-5.597	25.000	1.00	0.00
ATOM	917	1HB	ARG	59	7.152	-5.120	26.531	1.00	0.00
ATOM	918	2HB	ARG	59	8.275	-3.858	27.022	1.00	0.00
ATOM	919	1HG	ARG	59	9.674	-5.309	28.030	1.00	0.00
ATOM	920	2HG	ARG	59	9.401	-6.572	26.828	1.00	0.00
ATOM	921	1HD	ARG	59	8.131	-7.601	28.330	1.00	0.00
ATOM	922	2HD	ARG	59	6.958	-6.301	28.118	1.00	0.00
ATOM	923	HE	ARG	59	9.074	-5.785	30.029	1.00	0.00
ATOM	924	1HH1	ARG	59	5.809	-6.931	29.507	1.00	0.00
ATOM	925	2HH1	ARG	59	5.312	-6.640	31.143	1.00	0.00
ATOM	926	1HH2	ARG	59	8.442	-5.386	32.169	1.00	0.00
ATOM	927	2HH2	ARG	59	6.811	-5.749	32.670	1.00	0.00
ATOM	928	N	THR	60	7.939	-5.458	22.982	1.00	0.00
ATOM	929	CA	THR	60	6.969	-5.601	21.910	1.00	0.00
ATOM	933	C	THR	60	6.751	-7.066	21.539	1.00	0.00
ATOM	934	O	THR	60	5.642	-7.586	21.627	1.00	0.00
ATOM	930	CB	THR	60	7.443	-4.835	20.664	1.00	0.00
ATOM	931	OG1	THR	60	8.856	-4.597	20.759	1.00	0.00
ATOM	932	CG2	THR	60	6.706	-3.512	20.525	1.00	0.00
ATOM	935	H	THR	60	8.856	-5.766	22.838	1.00	0.00
ATOM	936	HA	THR	60	6.034	-5.173	22.239	1.00	0.00
ATOM	937	HB	THR	60	7.243	-5.439	19.790	1.00	0.00
ATOM	938	HG1	THR	60	9.017	-3.650	20.862	1.00	0.00
ATOM	939	1HG2	THR	60	6.739	-2.983	21.465	1.00	0.00
ATOM	940	2HG2	THR	60	5.678	-3.700	20.252	1.00	0.00



ATOM	941	3HG2	THR	60	7.179	-2.916	19.759	1.00	0.00
ATOM	942	N	PHE	61	7.821	-7.718	21.097	1.00	0.00
ATOM	943	CA	PHE	61	7.757	-9.115	20.670	1.00	0.00
ATOM	951	C	PHE	61	7.770	-10.089	21.851	1.00	0.00
ATOM	952	O	PHE	61	7.728	-11.304	21.666	1.00	0.00
ATOM	944	CB	PHE	61	8.923	-9.421	19.723	1.00	0.00
ATOM	945	CG	PHE	61	8.694	-8.964	18.306	1.00	0.00
ATOM	946	CD1	PHE	61	8.389	-7.638	18.027	1.00	0.00
ATOM	947	CD2	PHE	61	8.779	-9.860	17.254	1.00	0.00
ATOM	948	CE1	PHE	61	8.174	-7.221	16.727	1.00	0.00
ATOM	949	CE2	PHE	61	8.563	-9.447	15.952	1.00	0.00
ATOM	950	CZ	PHE	61	8.260	-8.126	15.688	1.00	0.00
ATOM	953	H	PHE	61	8.674	-7.239	21.030	1.00	0.00
ATOM	954	HA	PHE	61	6.832	-9.247	20.130	1.00	0.00
ATOM	955	1HB	PHE	61	9.088	-10.488	19.704	1.00	0.00
ATOM	956	2HB	PHE	61	9.812	-8.931	20.090	1.00	0.00
ATOM	957	HD1	PHE	61	9.015	-10.895	17.457	1.00	0.00
ATOM	958	HD2	PHE	61	8.321	-6.929	18.838	1.00	0.00
ATOM	959	HE1	PHE	61	8.633	-10.158	15.141	1.00	0.00
ATOM	960	HE2	PHE	61	7.936	-6.186	16.525	1.00	0.00
ATOM	961	HZ	PHE	61	8.091	-7.802	14.673	1.00	0.00
ATOM	962	N	SER	62	7.826	-9.562	23.062	1.00	0.00
ATOM	963	CA	SER	62	7.844	-10.399	24.253	1.00	0.00
ATOM	966	C	SER	62	6.475	-11.004	24.510	1.00	0.00
ATOM	967	O	SER	62	6.330	-12.221	24.652	1.00	0.00
ATOM	964	CB	SER	62	8.277	-9.559	25.454	1.00	0.00
ATOM	965	OG	SER	62	7.820	-8.219	25.317	1.00	0.00
ATOM	968	H	SER	62	7.855	-8.588	23.164	1.00	0.00
ATOM	969	HA	SER	62	8.551	-11.197	24.097	1.00	0.00
ATOM	970	1HB	SER	62	9.354	-9.555	25.519	1.00	0.00
ATOM	971	2HB	SER	62	7.861	-9.981	26.357	1.00	0.00
ATOM	972	HG	SER	62	6.953	-8.128	25.749	1.00	0.00
ATOM	973	N	ASP	63	5.480	-10.141	24.577	1.00	0.00
ATOM	974	CA	ASP	63	4.109	-10.545	24.836	1.00	0.00
ATOM	979	C	ASP	63	3.563	-11.371	23.690	1.00	0.00
ATOM	980	O	ASP	63	2.660	-12.189	23.869	1.00	0.00
ATOM	975	CB	ASP	63	3.250	-9.307	25.077	1.00	0.00
ATOM	976	CG	ASP	63	3.704	-8.517	26.298	1.00	0.00
ATOM	977	OD1	ASP	63	4.895	-8.114	26.340	1.00	0.00
ATOM	978	OD2	ASP	63	2.881	-8.306	27.212	1.00	0.00
ATOM	981	H	ASP	63	5.676	-9.185	24.466	1.00	0.00
ATOM	982	HA	ASP	63	4.108	-11.159	25.720	1.00	0.00
ATOM	983	1HB	ASP	63	2.229	-9.613	25.222	1.00	0.00
ATOM	984	2HB	ASP	63	3.309	-8.662	24.212	1.00	0.00
ATOM	985	N	LEU	64	4.145	-11.175	22.523	1.00	0.00
ATOM	986	CA	LEU	64	3.761	-11.923	21.338	1.00	0.00
ATOM	991	C	LEU	64	4.059	-13.398	21.569	1.00	0.00
ATOM	992	O	LEU	64	3.239	-14.273	21.291	1.00	0.00
ATOM	987	CB	LEU	64	4.549	-11.431	20.125	1.00	0.00
ATOM	988	CG	LEU	64	3.937	-10.268	19.339	1.00	0.00
ATOM	989	CD1	LEU	64	3.118	-9.348	20.236	1.00	0.00
ATOM	990	CD2	LEU	64	5.038	-9.485	18.652	1.00	0.00
ATOM	993	H	LEU	64	4.871	-10.524	22.465	1.00	0.00
ATOM	994	HA	LEU	64	2.703	-11.787	21.168	1.00	0.00
ATOM	995	1HB	LEU	64	4.674	-12.263	19.448	1.00	0.00
ATOM	996	2HB	LEU	64	5.526	-11.123	20.467	1.00	0.00
ATOM	997	HG	LEU	64	3.283	-10.661	18.576	1.00	0.00
ATOM	998	1HD1	LEU	64	3.530	-9.359	21.234	1.00	0.00
ATOM	999	2HD1	LEU	64	2.095	-9.690	20.265	1.00	0.00
ATOM	1000	3HD1	LEU	64	3.151	-8.342	19.844	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.881	-10.134	18.467	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.346	-8.666	19.287	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.672	-9.094	17.714	1.00	0.00
ATOM	1004	N	ALA	65	5.242	-13.653	22.115	1.00	0.00
ATOM	1005	CA	ALA	65	5.670	-15.005	22.418	1.00	0.00
ATOM	1007	C	ALA	65	4.957	-15.506	23.657	1.00	0.00
ATOM	1008	O	ALA	65	4.500	-16.646	23.705	1.00	0.00
ATOM	1006	CB	ALA	65	7.178	-15.054	22.615	1.00	0.00
ATOM	1009	H	ALA	65	5.832	-12.901	22.339	1.00	0.00
ATOM	1010	HA	ALA	65	5.413	-15.637	21.580	1.00	0.00
ATOM	1011	1HB	ALA	65	7.658	-14.439	21.869	1.00	0.00
ATOM	1012	2HB	ALA	65	7.521	-16.073	22.520	1.00	0.00
ATOM	1013	3HB	ALA	65	7.422	-14.682	23.600	1.00	0.00



ATOM	1014	N	ALA	66	4.860	-14.632	24.654	1.00	0.00
ATOM	1015	CA	ALA	66	4.193	-14.956	25.909	1.00	0.00
ATOM	1017	C	ALA	66	2.794	-15.519	25.662	1.00	0.00
ATOM	1018	O	ALA	66	2.397	-16.511	26.270	1.00	0.00
ATOM	1016	CB	ALA	66	4.123	-13.722	26.790	1.00	0.00
ATOM	1019	H	ALA	66	5.252	-13.730	24.538	1.00	0.00
ATOM	1020	HA	ALA	66	4.785	-15.700	26.422	1.00	0.00
ATOM	1021	1HB	ALA	66	4.601	-13.926	27.738	1.00	0.00
ATOM	1022	2HB	ALA	66	3.089	-13.458	26.958	1.00	0.00
ATOM	1023	3HB	ALA	66	4.628	-12.900	26.302	1.00	0.00
ATOM	1024	N	GLN	67	2.060	-14.884	24.758	1.00	0.00
ATOM	1025	CA	GLN	67	0.709	-15.324	24.422	1.00	0.00
ATOM	1031	C	GLN	67	0.718	-16.655	23.674	1.00	0.00
ATOM	1032	O	GLN	67	-0.004	-17.586	24.030	1.00	0.00
ATOM	1026	CB	GLN	67	0.008	-14.281	23.558	1.00	0.00
ATOM	1027	CG	GLN	67	-0.668	-13.181	24.350	1.00	0.00
ATOM	1028	CD	GLN	67	-0.982	-11.981	23.487	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.122	-11.783	23.073	1.00	0.00
ATOM	1030	NE2	GLN	67	0.029	-11.177	23.204	1.00	0.00
ATOM	1033	H	GLN	67	2.439	-14.096	24.302	1.00	0.00
ATOM	1034	HA	GLN	67	0.159	-15.445	25.343	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.742	-14.775	22.959	1.00	0.00
ATOM	1036	2HB	GLN	67	0.736	-13.826	22.904	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.012	-12.872	25.150	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.589	-13.563	24.762	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.918	-11.403	23.563	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.148	-10.388	22.652	1.00	0.00
ATOM	1041	N	LEU	68	1.519	-16.730	22.617	1.00	0.00
ATOM	1042	CA	LEU	68	1.590	-17.936	21.797	1.00	0.00
ATOM	1047	C	LEU	68	2.591	-18.950	22.351	1.00	0.00
ATOM	1048	O	LEU	68	3.063	-19.837	21.630	1.00	0.00
ATOM	1043	CB	LEU	68	1.943	-17.566	20.353	1.00	0.00
ATOM	1044	CG	LEU	68	0.786	-17.001	19.515	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.560	-17.475	20.049	1.00	0.00
ATOM	1046	CD2	LEU	68	0.836	-15.481	19.484	1.00	0.00
ATOM	1049	H	LEU	68	2.058	-15.947	22.365	1.00	0.00
ATOM	1050	HA	LEU	68	0.610	-18.389	21.804	1.00	0.00
ATOM	1051	1HB	LEU	68	2.316	-18.451	19.859	1.00	0.00
ATOM	1052	2HB	LEU	68	2.734	-16.830	20.378	1.00	0.00
ATOM	1053	HG	LEU	68	0.881	-17.358	18.500	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.208	-17.723	19.222	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.011	-16.688	20.636	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.415	-18.348	20.668	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.088	-15.083	20.154	1.00	0.00
ATOM	1058	2HD2	LEU	68	0.641	-15.135	18.481	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.815	-15.147	19.798	1.00	0.00
ATOM	1060	N	HIS	69	2.913	-18.813	23.630	1.00	0.00
ATOM	1061	CA	HIS	69	3.855	-19.705	24.291	1.00	0.00
ATOM	1068	C	HIS	69	3.186	-21.021	24.653	1.00	0.00
ATOM	1069	O	HIS	69	3.779	-22.091	24.520	1.00	0.00
ATOM	1062	CB	HIS	69	4.401	-19.049	25.561	1.00	0.00
ATOM	1063	CG	HIS	69	5.854	-19.305	25.805	1.00	0.00
ATOM	1064	ND1	HIS	69	6.763	-18.298	26.041	1.00	0.00
ATOM	1065	CD2	HIS	69	6.556	-20.462	25.855	1.00	0.00
ATOM	1066	CE1	HIS	69	7.960	-18.821	26.224	1.00	0.00
ATOM	1067	NE2	HIS	69	7.862	-20.131	26.117	1.00	0.00
ATOM	1070	H	HIS	69	2.518	-18.076	24.142	1.00	0.00
ATOM	1071	HA	HIS	69	4.666	-19.899	23.613	1.00	0.00
ATOM	1072	1HB	HIS	69	3.851	-19.423	26.413	1.00	0.00
ATOM	1073	2HB	HIS	69	4.262	-17.980	25.493	1.00	0.00
ATOM	1074	HD1	HIS	69	6.558	-17.341	26.079	1.00	0.00
ATOM	1075	HD2	HIS	69	6.162	-21.457	25.714	1.00	0.00
ATOM	1076	HE1	HIS	69	8.866	-18.269	26.427	1.00	0.00
ATOM	1077	HE2	HIS	69	8.581	-20.773	26.335	1.00	0.00
ATOM	1078	N	VAL	70	1.956	-20.932	25.125	1.00	0.00
ATOM	1079	CA	VAL	70	1.206	-22.113	25.523	1.00	0.00
ATOM	1083	C	VAL	70	0.382	-22.676	24.359	1.00	0.00
ATOM	1084	O	VAL	70	0.581	-23.822	23.953	1.00	0.00
ATOM	1080	CB	VAL	70	0.295	-21.820	26.748	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.410	-20.476	26.608	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.716	-22.941	26.966	1.00	0.00
ATOM	1085	H	VAL	70	1.547	-20.048	25.215	1.00	0.00
ATOM	1086	HA	VAL	70	1.927	-22.862	25.819	1.00	0.00



ATOM	1087	HB	VAL	70	0.926	-21.768	27.624	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.957	-20.259	27.514	1.00	0.00
ATOM	1089	2HG1	VAL	70	-1.096	-20.514	25.774	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.322	-19.701	26.435	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.391	-22.667	27.764	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.195	-23.848	27.231	1.00	0.00
ATOM	1093	3HG2	VAL	70	-1.278	-23.100	26.058	1.00	0.00
ATOM	1094	N	THR	71	-0.543	-21.876	23.833	1.00	0.00
ATOM	1095	CA	THR	71	-1.401	-22.307	22.737	1.00	0.00
ATOM	1099	C	THR	71	-2.238	-21.129	22.219	1.00	0.00
ATOM	1100	O	THR	71	-2.627	-20.249	22.994	1.00	0.00
ATOM	1096	CB	THR	71	-2.307	-23.486	23.203	1.00	0.00
ATOM	1097	OG1	THR	71	-1.740	-24.728	22.771	1.00	0.00
ATOM	1098	CG2	THR	71	-3.738	-23.378	22.686	1.00	0.00
ATOM	1101	H	THR	71	-0.663	-20.976	24.202	1.00	0.00
ATOM	1102	HA	THR	71	-0.766	-22.662	21.937	1.00	0.00
ATOM	1103	HB	THR	71	-2.336	-23.480	24.285	1.00	0.00
ATOM	1104	HG1	THR	71	-0.823	-24.779	23.071	1.00	0.00
ATOM	1105	1HG2	THR	71	-4.054	-22.346	22.714	1.00	0.00
ATOM	1106	2HG2	THR	71	-4.392	-23.971	23.309	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.782	-23.741	21.670	1.00	0.00
ATOM	1108	N	PRO	72	-2.512	-21.091	20.900	1.00	0.00
ATOM	1109	CA	PRO	72	-3.295	-20.020	20.276	1.00	0.00
ATOM	1113	C	PRO	72	-4.801	-20.181	20.505	1.00	0.00
ATOM	1114	O	PRO	72	-5.231	-20.860	21.438	1.00	0.00
ATOM	1110	CB	PRO	72	-2.963	-20.176	18.793	1.00	0.00
ATOM	1111	CG	PRO	72	-2.699	-21.631	18.622	1.00	0.00
ATOM	1112	CD	PRO	72	-2.068	-22.094	19.907	1.00	0.00
ATOM	1115	HA	PRO	72	-2.980	-19.046	20.619	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.090	-19.586	18.551	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.801	-19.850	18.196	1.00	0.00
ATOM	1118	1HG	PRO	72	-2.021	-21.788	17.795	1.00	0.00
ATOM	1119	2HG	PRO	72	-3.628	-22.154	18.451	1.00	0.00
ATOM	1120	1HD	PRO	72	-0.990	-22.095	19.819	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.425	-23.079	20.170	1.00	0.00
ATOM	1122	N	GLY	73	-5.599	-19.556	19.645	1.00	0.00
ATOM	1123	CA	GLY	73	-7.042	-19.648	19.771	1.00	0.00
ATOM	1124	C	GLY	73	-7.594	-18.695	20.810	1.00	0.00
ATOM	1125	O	GLY	73	-8.240	-17.701	20.470	1.00	0.00
ATOM	1126	H	GLY	73	-5.205	-19.029	18.918	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.305	-20.658	20.049	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.491	-19.421	18.815	1.00	0.00
ATOM	1129	N	SER	74	-7.332	-18.990	22.076	1.00	0.00
ATOM	1130	CA	SER	74	-7.795	-18.158	23.181	1.00	0.00
ATOM	1133	C	SER	74	-6.940	-16.896	23.317	1.00	0.00
ATOM	1134	O	SER	74	-6.449	-16.564	24.396	1.00	0.00
ATOM	1131	CB	SER	74	-7.774	-18.967	24.478	1.00	0.00
ATOM	1132	OG	SER	74	-7.879	-20.354	24.202	1.00	0.00
ATOM	1135	H	SER	74	-6.803	-19.796	22.279	1.00	0.00
ATOM	1136	HA	SER	74	-8.812	-17.861	22.970	1.00	0.00
ATOM	1137	1HB	SER	74	-8.608	-18.671	25.099	1.00	0.00
ATOM	1138	2HB	SER	74	-6.848	-18.783	25.003	1.00	0.00
ATOM	1139	HG	SER	74	-8.184	-20.814	24.991	1.00	0.00
ATOM	1140	N	ALA	75	-6.772	-16.196	22.207	1.00	0.00
ATOM	1141	CA	ALA	75	-5.993	-14.975	22.184	1.00	0.00
ATOM	1143	C	ALA	75	-6.905	-13.757	22.162	1.00	0.00
ATOM	1144	O	ALA	75	-6.486	-12.653	22.506	1.00	0.00
ATOM	1142	CB	ALA	75	-5.060	-14.966	20.983	1.00	0.00
ATOM	1145	H	ALA	75	-7.191	-16.517	21.376	1.00	0.00
ATOM	1146	HA	ALA	75	-5.391	-14.944	23.076	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.259	-14.261	21.154	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.613	-14.675	20.101	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.647	-15.952	20.841	1.00	0.00
ATOM	1150	N	GLN	76	-8.155	-13.962	21.748	1.00	0.00
ATOM	1151	CA	GLN	76	-9.116	-12.866	21.671	1.00	0.00
ATOM	1157	C	GLN	76	-9.427	-12.307	23.040	1.00	0.00
ATOM	1158	O	GLN	76	-9.576	-11.100	23.195	1.00	0.00
ATOM	1152	CB	GLN	76	-10.410	-13.289	20.964	1.00	0.00
ATOM	1153	CG	GLN	76	-10.947	-14.646	21.377	1.00	0.00
ATOM	1154	CD	GLN	76	-12.317	-14.936	20.788	1.00	0.00
ATOM	1155	OE1	GLN	76	-13.078	-15.738	21.328	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.639	-14.281	19.683	1.00	0.00
ATOM	1159	H	GLN	76	-8.430	-14.863	21.485	1.00	0.00



ATOM	1160	HA	GLN	76	-8.653	-12.083	21.089	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.229	-13.310	19.899	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.172	-12.554	21.171	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.021	-14.672	22.446	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.259	-15.410	21.045	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.988	-13.655	19.309	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.527	-14.449	19.281	1.00	0.00
ATOM	1167	N	GLN	77	-9.514	-13.177	24.031	1.00	0.00
ATOM	1168	CA	GLN	77	-9.803	-12.742	25.385	1.00	0.00
ATOM	1174	C	GLN	77	-8.638	-11.931	25.929	1.00	0.00
ATOM	1175	O	GLN	77	-8.836	-10.892	26.547	1.00	0.00
ATOM	1169	CB	GLN	77	-10.100	-13.939	26.293	1.00	0.00
ATOM	1170	CG	GLN	77	-11.240	-14.818	25.795	1.00	0.00
ATOM	1171	CD	GLN	77	-10.771	-15.909	24.850	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.628	-15.903	24.397	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.652	-16.840	24.531	1.00	0.00
ATOM	1176	H	GLN	77	-9.377	-14.136	23.850	1.00	0.00
ATOM	1177	HA	GLN	77	-10.672	-12.100	25.343	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.359	-13.573	27.274	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.211	-14.549	26.370	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.955	-14.196	25.276	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.718	-15.280	26.646	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.560	-16.777	24.914	1.00	0.00
ATOM	1183	2HE2	GLN	77	-11.369	-17.557	23.930	1.00	0.00
ATOM	1184	N	ARG	78	-7.425	-12.393	25.663	1.00	0.00
ATOM	1185	CA	ARG	78	-6.231	-11.685	26.108	1.00	0.00
ATOM	1193	C	ARG	78	-6.151	-10.324	25.430	1.00	0.00
ATOM	1194	O	ARG	78	-5.890	-9.307	26.077	1.00	0.00
ATOM	1186	CB	ARG	78	-4.973	-12.499	25.792	1.00	0.00
ATOM	1187	CG	ARG	78	-4.572	-13.462	26.896	1.00	0.00
ATOM	1188	CD	ARG	78	-3.905	-14.710	26.335	1.00	0.00
ATOM	1189	NE	ARG	78	-4.044	-15.855	27.237	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.988	-17.131	26.854	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.746	-17.442	25.583	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.166	-18.094	27.750	1.00	0.00
ATOM	1195	H	ARG	78	-7.330	-13.215	25.141	1.00	0.00
ATOM	1196	HA	ARG	78	-6.309	-11.537	27.174	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.152	-11.816	25.624	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.144	-13.069	24.891	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.456	-13.752	27.445	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.881	-12.965	27.560	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.854	-14.507	26.185	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.363	-14.954	25.387	1.00	0.00
ATOM	1203	HE	ARG	78	-4.201	-15.656	28.196	1.00	0.00
ATOM	1204	1HH1	ARG	78	-3.604	-16.717	24.908	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.708	-18.401	25.296	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.341	-17.859	28.713	1.00	0.00
ATOM	1207	2HH2	ARG	78	-4.136	-19.059	27.476	1.00	0.00
ATOM	1208	N	PHE	79	-6.390	-10.317	24.124	1.00	0.00
ATOM	1209	CA	PHE	79	-6.356	-9.093	23.346	1.00	0.00
ATOM	1217	C	PHE	79	-7.424	-8.118	23.828	1.00	0.00
ATOM	1218	O	PHE	79	-7.129	-6.958	24.104	1.00	0.00
ATOM	1210	CB	PHE	79	-6.551	-9.394	21.858	1.00	0.00
ATOM	1211	CG	PHE	79	-5.915	-8.379	20.950	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.539	-8.222	20.920	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.694	-7.582	20.127	1.00	0.00
ATOM	1214	CE1	PHE	79	-3.950	-7.290	20.087	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.111	-6.646	19.292	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.739	-6.500	19.272	1.00	0.00
ATOM	1219	H	PHE	79	-6.596	-11.165	23.672	1.00	0.00
ATOM	1220	HA	PHE	79	-5.385	-8.641	23.487	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.609	-9.420	21.639	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.118	-10.357	21.632	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.768	-7.695	20.141	1.00	0.00
ATOM	1224	HD2	PHE	79	-3.921	-8.840	21.556	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.730	-6.031	18.655	1.00	0.00
ATOM	1226	HE2	PHE	79	-2.876	-7.178	20.074	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.281	-5.771	18.621	1.00	0.00
ATOM	1228	N	THR	80	-8.667	-8.586	23.921	1.00	0.00
ATOM	1229	CA	THR	80	-9.769	-7.729	24.363	1.00	0.00
ATOM	1233	C	THR	80	-9.525	-7.144	25.756	1.00	0.00
ATOM	1234	O	THR	80	-9.955	-6.026	26.036	1.00	0.00
ATOM	1230	CB	THR	80	-11.120	-8.469	24.363	1.00	0.00



ATOM	1231	OG1	THR	80	-10.976	-9.771	24.930	1.00	0.00
ATOM	1232	CG2	THR	80	-11.677	-8.583	22.950	1.00	0.00
ATOM	1235	H	THR	80	-8.851	-9.524	23.674	1.00	0.00
ATOM	1236	HA	THR	80	-9.840	-6.912	23.660	1.00	0.00
ATOM	1237	HB	THR	80	-11.818	-7.906	24.961	1.00	0.00
ATOM	1238	HG1	THR	80	-10.620	-10.372	24.263	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.063	-9.581	22.795	1.00	0.00
ATOM	1240	2HG2	THR	80	-10.892	-8.388	22.238	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.471	-7.862	22.817	1.00	0.00
ATOM	1242	N	GLN	81	-8.839	-7.887	26.627	1.00	0.00
ATOM	1243	CA	GLN	81	-8.567	-7.396	27.976	1.00	0.00
ATOM	1249	C	GLN	81	-7.677	-6.164	27.929	1.00	0.00
ATOM	1250	O	GLN	81	-8.037	-5.104	28.435	1.00	0.00
ATOM	1244	CB	GLN	81	-7.917	-8.475	28.838	1.00	0.00
ATOM	1245	CG	GLN	81	-8.858	-9.615	29.174	1.00	0.00
ATOM	1246	CD	GLN	81	-10.156	-9.159	29.815	1.00	0.00
ATOM	1247	OE1	GLN	81	-10.265	-9.072	31.036	1.00	0.00
ATOM	1248	NE2	GLN	81	-11.158	-8.886	28.993	1.00	0.00
ATOM	1251	H	GLN	81	-8.508	-8.778	26.358	1.00	0.00
ATOM	1252	HA	GLN	81	-9.514	-7.129	28.418	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.580	-8.028	29.762	1.00	0.00
ATOM	1254	2HB	GLN	81	-7.068	-8.879	28.309	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.357	-10.296	29.845	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.099	-10.121	28.256	1.00	0.00
ATOM	1257	1HE2	GLN	81	-11.009	-8.995	28.030	1.00	0.00
ATOM	1258	2HE2	GLN	81	-12.006	-8.585	29.381	1.00	0.00
ATOM	1259	N	VAL	82	-6.515	-6.311	27.307	1.00	0.00
ATOM	1260	CA	VAL	82	-5.568	-5.209	27.187	1.00	0.00
ATOM	1264	C	VAL	82	-6.148	-4.066	26.353	1.00	0.00
ATOM	1265	O	VAL	82	-5.845	-2.902	26.595	1.00	0.00
ATOM	1261	CB	VAL	82	-4.223	-5.674	26.586	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.686	-6.856	27.372	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.354	-6.029	25.111	1.00	0.00
ATOM	1266	H	VAL	82	-6.289	-7.186	26.917	1.00	0.00
ATOM	1267	HA	VAL	82	-5.370	-4.837	28.189	1.00	0.00
ATOM	1268	HB	VAL	82	-3.519	-4.863	26.677	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.605	-7.717	26.725	1.00	0.00
ATOM	1270	2HG1	VAL	82	-4.357	-7.082	28.188	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.711	-6.612	27.768	1.00	0.00
ATOM	1272	1HG2	VAL	82	-5.166	-6.729	24.978	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.433	-6.474	24.763	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.557	-5.132	24.543	1.00	0.00
ATOM	1275	N	SER	83	-6.990	-4.405	25.383	1.00	0.00
ATOM	1276	CA	SER	83	-7.614	-3.401	24.530	1.00	0.00
ATOM	1279	C	SER	83	-8.552	-2.520	25.347	1.00	0.00
ATOM	1280	O	SER	83	-8.553	-1.298	25.198	1.00	0.00
ATOM	1277	CB	SER	83	-8.379	-4.069	23.386	1.00	0.00
ATOM	1278	OG	SER	83	-7.509	-4.842	22.578	1.00	0.00
ATOM	1281	H	SER	83	-7.202	-5.352	25.241	1.00	0.00
ATOM	1282	HA	SER	83	-6.830	-2.784	24.117	1.00	0.00
ATOM	1283	1HB	SER	83	-8.842	-3.310	22.772	1.00	0.00
ATOM	1284	2HB	SER	83	-9.140	-4.716	23.794	1.00	0.00
ATOM	1285	HG	SER	83	-7.162	-5.580	23.097	1.00	0.00
ATOM	1286	N	ASP	84	-9.336	-3.143	26.222	1.00	0.00
ATOM	1287	CA	ASP	84	-10.265	-2.401	27.067	1.00	0.00
ATOM	1292	C	ASP	84	-9.500	-1.536	28.057	1.00	0.00
ATOM	1293	O	ASP	84	-9.898	-0.411	28.353	1.00	0.00
ATOM	1288	CB	ASP	84	-11.214	-3.346	27.805	1.00	0.00
ATOM	1289	CG	ASP	84	-12.644	-2.843	27.787	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.208	-2.678	26.681	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.210	-2.603	28.874	1.00	0.00
ATOM	1294	H	ASP	84	-9.285	-4.120	26.308	1.00	0.00
ATOM	1295	HA	ASP	84	-10.846	-1.756	26.424	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.895	-3.438	28.834	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.186	-4.318	27.335	1.00	0.00
ATOM	1298	N	GLU	85	-8.380	-2.059	28.545	1.00	0.00
ATOM	1299	CA	GLU	85	-7.543	-1.322	29.481	1.00	0.00
ATOM	1305	C	GLU	85	-6.873	-0.149	28.767	1.00	0.00
ATOM	1306	O	GLU	85	-6.543	0.862	29.382	1.00	0.00
ATOM	1300	CB	GLU	85	-6.486	-2.239	30.098	1.00	0.00
ATOM	1301	CG	GLU	85	-7.073	-3.359	30.941	1.00	0.00
ATOM	1302	CD	GLU	85	-6.316	-3.578	32.235	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.243	-4.211	32.200	1.00	0.00



ATOM	1304	OE2	GLU	85	-6.799	-3.128	33.301	1.00	0.00
ATOM	1307	H	GLU	85	-8.103	-2.956	28.257	1.00	0.00
ATOM	1308	HA	GLU	85	-8.180	-0.937	30.264	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.836	-1.648	30.726	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.902	-2.681	29.304	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.048	-4.274	30.368	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.097	-3.114	31.180	1.00	0.00
ATOM	1313	N	LEU	86	-6.693	-0.292	27.457	1.00	0.00
ATOM	1314	CA	LEU	86	-6.082	0.751	26.643	1.00	0.00
ATOM	1319	C	LEU	86	-7.109	1.833	26.320	1.00	0.00
ATOM	1320	O	LEU	86	-6.770	3.006	26.169	1.00	0.00
ATOM	1315	CB	LEU	86	-5.523	0.158	25.344	1.00	0.00
ATOM	1316	CG	LEU	86	-4.000	0.205	25.204	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.375	-1.089	25.694	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.605	0.469	23.759	1.00	0.00
ATOM	1321	H	LEU	86	-6.988	-1.121	27.024	1.00	0.00
ATOM	1322	HA	LEU	86	-5.275	1.189	27.211	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.955	0.699	24.515	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.837	-0.873	25.280	1.00	0.00
ATOM	1325	HG	LEU	86	-3.613	1.012	25.810	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.991	-1.645	24.850	1.00	0.00
ATOM	1327	2HD1	LEU	86	-4.123	-1.681	26.203	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.567	-0.866	26.375	1.00	0.00
ATOM	1329	1HD2	LEU	86	-4.485	0.428	23.132	1.00	0.00
ATOM	1330	2HD2	LEU	86	-2.899	-0.281	23.436	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.152	1.446	23.681	1.00	0.00
ATOM	1332	N	PHE	87	-8.369	1.429	26.218	1.00	0.00
ATOM	1333	CA	PHE	87	-9.451	2.357	25.913	1.00	0.00
ATOM	1341	C	PHE	87	-10.138	2.826	27.195	1.00	0.00
ATOM	1342	O	PHE	87	-11.103	3.589	27.147	1.00	0.00
ATOM	1334	CB	PHE	87	-10.468	1.698	24.975	1.00	0.00
ATOM	1335	CG	PHE	87	-11.433	2.666	24.347	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.011	3.552	23.371	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.760	2.698	24.743	1.00	0.00
ATOM	1338	CE1	PHE	87	-11.893	4.451	22.801	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.647	3.594	24.178	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.212	4.472	23.206	1.00	0.00
ATOM	1343	H	PHE	87	-8.578	0.478	26.347	1.00	0.00
ATOM	1344	HA	PHE	87	-9.019	3.215	25.416	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.043	0.971	25.533	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.940	1.195	24.178	1.00	0.00
ATOM	1347	HD1	PHE	87	-9.980	3.537	23.052	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.102	2.011	25.504	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.551	5.136	22.041	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.678	3.607	24.497	1.00	0.00
ATOM	1351	HZ	PHE	87	-13.904	5.174	22.763	1.00	0.00
ATOM	1352	N	GLN	88	-9.638	2.356	28.336	1.00	0.00
ATOM	1353	CA	GLN	88	-10.194	2.706	29.644	1.00	0.00
ATOM	1359	C	GLN	88	-10.429	4.209	29.775	1.00	0.00
ATOM	1360	O	GLN	88	-11.515	4.643	30.159	1.00	0.00
ATOM	1354	CB	GLN	88	-9.262	2.232	30.761	1.00	0.00
ATOM	1355	CG	GLN	88	-9.988	1.558	31.916	1.00	0.00
ATOM	1356	CD	GLN	88	-10.818	2.528	32.736	1.00	0.00
ATOM	1357	OE1	GLN	88	-10.285	3.331	33.503	1.00	0.00
ATOM	1358	NE2	GLN	88	-12.132	2.460	32.583	1.00	0.00
ATOM	1361	H	GLN	88	-8.875	1.740	28.296	1.00	0.00
ATOM	1362	HA	GLN	88	-11.142	2.200	29.745	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.723	3.083	31.150	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.555	1.527	30.349	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.255	1.096	32.563	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.642	0.798	31.516	1.00	0.00
ATOM	1367	1HE2	GLN	88	-12.493	1.795	31.958	1.00	0.00
ATOM	1368	2HE2	GLN	88	-12.690	3.079	33.098	1.00	0.00
ATOM	1369	N	GLY	89	-9.416	4.998	29.452	1.00	0.00
ATOM	1370	CA	GLY	89	-9.558	6.433	29.546	1.00	0.00
ATOM	1371	C	GLY	89	-8.379	7.179	28.963	1.00	0.00
ATOM	1372	O	GLY	89	-7.700	7.920	29.672	1.00	0.00
ATOM	1373	H	GLY	89	-8.571	4.605	29.150	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.663	6.705	30.586	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.452	6.729	29.017	1.00	0.00
ATOM	1376	N	GLY	90	-8.136	7.002	27.671	1.00	0.00
ATOM	1377	CA	GLY	90	-7.033	7.698	27.039	1.00	0.00
ATOM	1378	C	GLY	90	-6.602	7.101	25.707	1.00	0.00



ATOM	1379	O	GLY	90	-5.435	6.742	25.547	1.00	0.00
ATOM	1380	H	GLY	90	-8.713	6.409	27.144	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.189	7.685	27.712	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.325	8.724	26.875	1.00	0.00
ATOM	1383	N	PRO	91	-7.503	7.013	24.708	1.00	0.00
ATOM	1384	CA	PRO	91	-7.161	6.486	23.388	1.00	0.00
ATOM	1388	C	PRO	91	-6.477	7.537	22.520	1.00	0.00
ATOM	1389	O	PRO	91	-6.767	7.670	21.333	1.00	0.00
ATOM	1385	CB	PRO	91	-8.508	6.102	22.779	1.00	0.00
ATOM	1386	CG	PRO	91	-9.561	6.788	23.582	1.00	0.00
ATOM	1387	CD	PRO	91	-8.905	7.448	24.772	1.00	0.00
ATOM	1390	HA	PRO	91	-6.530	5.613	23.460	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.622	5.031	22.815	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.541	6.439	21.754	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.299	6.067	23.906	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.032	7.532	22.968	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.369	7.112	25.688	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.973	8.522	24.690	1.00	0.00
ATOM	1397	N	ASN	92	-5.575	8.287	23.135	1.00	0.00
ATOM	1398	CA	ASN	92	-4.840	9.348	22.459	1.00	0.00
ATOM	1403	C	ASN	92	-3.940	8.796	21.360	1.00	0.00
ATOM	1404	O	ASN	92	-3.640	7.605	21.344	1.00	0.00
ATOM	1399	CB	ASN	92	-4.004	10.122	23.477	1.00	0.00
ATOM	1400	CG	ASN	92	-3.884	11.591	23.134	1.00	0.00
ATOM	1401	OD1	ASN	92	-3.446	11.948	22.041	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.266	12.450	24.065	1.00	0.00
ATOM	1405	H	ASN	92	-5.405	8.120	24.085	1.00	0.00
ATOM	1406	HA	ASN	92	-5.558	10.020	22.016	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.011	9.697	23.514	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.463	10.037	24.450	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.602	12.096	24.915	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.185	13.409	23.872	1.00	0.00
ATOM	1411	N	TRP	93	-3.498	9.674	20.455	1.00	0.00
ATOM	1412	CA	TRP	93	-2.619	9.280	19.353	1.00	0.00
ATOM	1423	C	TRP	93	-1.359	8.602	19.884	1.00	0.00
ATOM	1424	O	TRP	93	-0.760	7.776	19.199	1.00	0.00
ATOM	1413	CB	TRP	93	-2.221	10.487	18.492	1.00	0.00
ATOM	1414	CG	TRP	93	-3.339	11.452	18.215	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.455	12.722	18.704	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.489	11.243	17.373	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.598	13.310	18.227	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.249	12.427	17.413	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.954	10.176	16.593	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.441	12.576	16.710	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.141	10.333	15.892	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.868	11.524	15.957	1.00	0.00
ATOM	1425	H	TRP	93	-3.767	10.615	20.536	1.00	0.00
ATOM	1426	HA	TRP	93	-3.155	8.574	18.735	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.848	10.130	17.542	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.437	11.031	18.994	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.741	13.182	19.371	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.900	14.226	18.432	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.406	9.248	16.529	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.016	13.490	16.747	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.519	9.528	15.279	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.788	11.599	15.395	1.00	0.00
ATOM	1435	N	GLY	94	-0.979	8.935	21.118	1.00	0.00
ATOM	1436	CA	GLY	94	0.184	8.328	21.724	1.00	0.00
ATOM	1437	C	GLY	94	-0.039	6.846	21.948	1.00	0.00
ATOM	1438	O	GLY	94	0.863	6.030	21.766	1.00	0.00
ATOM	1439	H	GLY	94	-1.506	9.582	21.625	1.00	0.00
ATOM	1440	1HA	GLY	94	0.372	8.802	22.676	1.00	0.00
ATOM	1441	2HA	GLY	94	1.037	8.477	21.082	1.00	0.00
ATOM	1442	N	ARG	95	-1.263	6.504	22.332	1.00	0.00
ATOM	1443	CA	ARG	95	-1.641	5.120	22.568	1.00	0.00
ATOM	1451	C	ARG	95	-2.117	4.460	21.284	1.00	0.00
ATOM	1452	O	ARG	95	-2.007	3.245	21.132	1.00	0.00
ATOM	1444	CB	ARG	95	-2.724	5.031	23.645	1.00	0.00
ATOM	1445	CG	ARG	95	-2.542	3.858	24.596	1.00	0.00
ATOM	1446	CD	ARG	95	-1.071	3.606	24.894	1.00	0.00
ATOM	1447	NE	ARG	95	-0.822	2.232	25.331	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.893	1.833	26.600	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.233	2.693	27.548	1.00	0.00



ATOM	1450	NH2	ARG	95	-0.633	0.570	26.922	1.00	0.00
ATOM	1453	H	ARG	95	-1.941	7.205	22.441	1.00	0.00
ATOM	1454	HA	ARG	95	-0.762	4.599	22.908	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.686	4.931	23.166	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.715	5.942	24.226	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.966	2.972	24.144	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.054	4.073	25.521	1.00	0.00
ATOM	1459	1HD	ARG	95	-0.754	4.284	25.673	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.498	3.795	23.999	1.00	0.00
ATOM	1461	HE	ARG	95	-0.586	1.577	24.639	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.440	3.645	27.318	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.288	2.390	28.504	1.00	0.00
ATOM	1464	1HH2	ARG	95	-0.379	-0.091	26.213	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.699	0.271	27.879	1.00	0.00
ATOM	1466	N	LEU	96	-2.645	5.273	20.368	1.00	0.00
ATOM	1467	CA	LEU	96	-3.145	4.789	19.080	1.00	0.00
ATOM	1472	C	LEU	96	-2.064	3.987	18.365	1.00	0.00
ATOM	1473	O	LEU	96	-2.348	3.030	17.638	1.00	0.00
ATOM	1468	CB	LEU	96	-3.591	5.973	18.214	1.00	0.00
ATOM	1469	CG	LEU	96	-4.678	5.682	17.169	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.056	5.522	15.792	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.486	4.444	17.537	1.00	0.00
ATOM	1474	H	LEU	96	-2.701	6.233	20.566	1.00	0.00
ATOM	1475	HA	LEU	96	-3.992	4.146	19.269	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.724	6.355	17.696	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.960	6.748	18.871	1.00	0.00
ATOM	1478	HG	LEU	96	-5.357	6.522	17.128	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.163	6.127	15.729	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.761	5.842	15.039	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.801	4.485	15.630	1.00	0.00
ATOM	1482	1HD2	LEU	96	-4.818	3.667	17.882	1.00	0.00
ATOM	1483	2HD2	LEU	96	-6.026	4.094	16.670	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.187	4.691	18.322	1.00	0.00
ATOM	1485	N	VAL	97	-0.819	4.368	18.616	1.00	0.00
ATOM	1486	CA	VAL	97	0.319	3.684	18.040	1.00	0.00
ATOM	1490	C	VAL	97	0.360	2.249	18.540	1.00	0.00
ATOM	1491	O	VAL	97	0.370	1.302	17.757	1.00	0.00
ATOM	1487	CB	VAL	97	1.638	4.361	18.426	1.00	0.00
ATOM	1488	CG1	VAL	97	2.758	3.788	17.592	1.00	0.00
ATOM	1489	CG2	VAL	97	1.553	5.870	18.264	1.00	0.00
ATOM	1492	H	VAL	97	-0.667	5.118	19.234	1.00	0.00
ATOM	1493	HA	VAL	97	0.227	3.694	16.959	1.00	0.00
ATOM	1494	HB	VAL	97	1.843	4.140	19.463	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.404	3.609	16.588	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.092	2.858	18.027	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.579	4.489	17.564	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.688	6.344	19.226	1.00	0.00
ATOM	1499	2HG2	VAL	97	0.585	6.135	17.864	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.327	6.203	17.588	1.00	0.00
ATOM	1501	N	ALA	98	0.373	2.112	19.863	1.00	0.00
ATOM	1502	CA	ALA	98	0.409	0.810	20.515	1.00	0.00
ATOM	1504	C	ALA	98	-0.821	-0.017	20.168	1.00	0.00
ATOM	1505	O	ALA	98	-0.756	-1.241	20.148	1.00	0.00
ATOM	1503	CB	ALA	98	0.521	0.977	22.022	1.00	0.00
ATOM	1506	H	ALA	98	0.353	2.918	20.418	1.00	0.00
ATOM	1507	HA	ALA	98	1.289	0.289	20.169	1.00	0.00
ATOM	1508	1HB	ALA	98	1.426	1.517	22.258	1.00	0.00
ATOM	1509	2HB	ALA	98	0.550	0.005	22.491	1.00	0.00
ATOM	1510	3HB	ALA	98	-0.332	1.528	22.388	1.00	0.00
ATOM	1511	N	PHE	99	-1.934	0.657	19.888	1.00	0.00
ATOM	1512	CA	PHE	99	-3.174	-0.016	19.529	1.00	0.00
ATOM	1520	C	PHE	99	-2.951	-0.901	18.308	1.00	0.00
ATOM	1521	O	PHE	99	-3.183	-2.109	18.345	1.00	0.00
ATOM	1513	CB	PHE	99	-4.266	1.013	19.204	1.00	0.00
ATOM	1514	CG	PHE	99	-5.141	1.442	20.356	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.034	0.562	20.950	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.090	2.746	20.819	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.852	0.981	21.989	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.906	3.171	21.849	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.787	2.292	22.437	1.00	0.00
ATOM	1522	H	PHE	99	-1.919	1.638	19.914	1.00	0.00
ATOM	1523	HA	PHE	99	-3.478	-0.632	20.358	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.904	0.603	18.441	1.00	0.00



ATOM	1525	2HB	PHE	99	-3.793	1.902	18.815	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.399	3.440	20.363	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.086	-0.459	20.602	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.849	4.193	22.195	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.542	0.288	22.448	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.431	2.628	23.240	1.00	0.00
ATOM	1531	N	PHE	100	-2.496	-0.279	17.226	1.00	0.00
ATOM	1532	CA	PHE	100	-2.242	-0.997	15.983	1.00	0.00
ATOM	1540	C	PHE	100	-0.968	-1.825	16.076	1.00	0.00
ATOM	1541	O	PHE	100	-0.896	-2.934	15.543	1.00	0.00
ATOM	1533	CB	PHE	100	-2.136	-0.016	14.816	1.00	0.00
ATOM	1534	CG	PHE	100	-3.451	0.267	14.155	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.326	1.193	14.697	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.816	-0.393	12.993	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.538	1.455	14.094	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.029	-0.135	12.386	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.892	0.790	12.938	1.00	0.00
ATOM	1542	H	PHE	100	-2.332	0.690	17.265	1.00	0.00
ATOM	1543	HA	PHE	100	-3.076	-1.660	15.808	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.469	-0.424	14.070	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.735	0.921	15.176	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.141	-1.117	12.561	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.052	1.714	15.603	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.302	-0.656	11.479	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.212	2.179	14.528	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.842	0.993	12.467	1.00	0.00
ATOM	1551	N	VAL	101	0.037	-1.277	16.749	1.00	0.00
ATOM	1552	CA	VAL	101	1.317	-1.954	16.909	1.00	0.00
ATOM	1556	C	VAL	101	1.147	-3.293	17.626	1.00	0.00
ATOM	1557	O	VAL	101	1.820	-4.270	17.284	1.00	0.00
ATOM	1553	CB	VAL	101	2.333	-1.062	17.670	1.00	0.00
ATOM	1554	CG1	VAL	101	3.378	-1.890	18.409	1.00	0.00
ATOM	1555	CG2	VAL	101	3.009	-0.096	16.709	1.00	0.00
ATOM	1558	H	VAL	101	-0.084	-0.386	17.145	1.00	0.00
ATOM	1559	HA	VAL	101	1.713	-2.142	15.921	1.00	0.00
ATOM	1560	HB	VAL	101	1.791	-0.479	18.402	1.00	0.00
ATOM	1561	1HG1	VAL	101	4.362	-1.488	18.211	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.333	-2.913	18.066	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.182	-1.857	19.470	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.807	0.919	17.016	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.626	-0.254	15.711	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.076	-0.268	16.716	1.00	0.00
ATOM	1567	N	PHE	102	0.245	-3.342	18.607	1.00	0.00
ATOM	1568	CA	PHE	102	0.004	-4.570	19.357	1.00	0.00
ATOM	1576	C	PHE	102	-0.393	-5.712	18.431	1.00	0.00
ATOM	1577	O	PHE	102	0.199	-6.789	18.473	1.00	0.00
ATOM	1569	CB	PHE	102	-1.089	-4.353	20.408	1.00	0.00
ATOM	1570	CG	PHE	102	-0.563	-4.115	21.797	1.00	0.00
ATOM	1571	CD1	PHE	102	0.790	-3.906	22.021	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.427	-4.096	22.878	1.00	0.00
ATOM	1573	CE1	PHE	102	1.268	-3.682	23.298	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.955	-3.873	24.157	1.00	0.00
ATOM	1575	CZ	PHE	102	0.394	-3.666	24.367	1.00	0.00
ATOM	1578	H	PHE	102	-0.275	-2.528	18.836	1.00	0.00
ATOM	1579	HA	PHE	102	0.922	-4.836	19.854	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.724	-5.227	20.439	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.681	-3.496	20.129	1.00	0.00
ATOM	1582	HD1	PHE	102	1.474	-3.919	21.185	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.483	-4.258	22.716	1.00	0.00
ATOM	1584	HE1	PHE	102	2.324	-3.522	23.459	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.640	-3.861	24.992	1.00	0.00
ATOM	1586	HZ	PHE	102	0.764	-3.491	25.366	1.00	0.00
ATOM	1587	N	GLY	103	-1.395	-5.473	17.599	1.00	0.00
ATOM	1588	CA	GLY	103	-1.850	-6.499	16.687	1.00	0.00
ATOM	1589	C	GLY	103	-0.910	-6.722	15.523	1.00	0.00
ATOM	1590	O	GLY	103	-0.680	-7.861	15.132	1.00	0.00
ATOM	1591	H	GLY	103	-1.831	-4.593	17.609	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.816	-6.224	16.304	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.948	-7.425	17.232	1.00	0.00
ATOM	1594	N	ALA	104	-0.370	-5.646	14.965	1.00	0.00
ATOM	1595	CA	ALA	104	0.544	-5.753	13.832	1.00	0.00
ATOM	1597	C	ALA	104	1.760	-6.598	14.189	1.00	0.00
ATOM	1598	O	ALA	104	2.189	-7.443	13.403	1.00	0.00



ATOM	1596	CB	ALA	104	0.974	-4.375	13.355	1.00	0.00
ATOM	1599	H	ALA	104	-0.595	-4.755	15.320	1.00	0.00
ATOM	1600	HA	ALA	104	0.012	-6.243	13.023	1.00	0.00
ATOM	1601	1HB	ALA	104	2.032	-4.249	13.528	1.00	0.00
ATOM	1602	2HB	ALA	104	0.427	-3.618	13.897	1.00	0.00
ATOM	1603	3HB	ALA	104	0.770	-4.280	12.298	1.00	0.00
ATOM	1604	N	ALA	105	2.298	-6.391	15.383	1.00	0.00
ATOM	1605	CA	ALA	105	3.445	-7.164	15.826	1.00	0.00
ATOM	1607	C	ALA	105	3.013	-8.594	16.121	1.00	0.00
ATOM	1608	O	ALA	105	3.708	-9.550	15.774	1.00	0.00
ATOM	1606	CB	ALA	105	4.088	-6.529	17.052	1.00	0.00
ATOM	1609	H	ALA	105	1.905	-5.715	15.987	1.00	0.00
ATOM	1610	HA	ALA	105	4.171	-7.174	15.026	1.00	0.00
ATOM	1611	1HB	ALA	105	4.897	-7.155	17.401	1.00	0.00
ATOM	1612	2HB	ALA	105	3.350	-6.424	17.833	1.00	0.00
ATOM	1613	3HB	ALA	105	4.475	-5.555	16.789	1.00	0.00
ATOM	1614	N	LEU	106	1.847	-8.723	16.748	1.00	0.00
ATOM	1615	CA	LEU	106	1.282	-10.024	17.091	1.00	0.00
ATOM	1620	C	LEU	106	1.088	-10.870	15.840	1.00	0.00
ATOM	1621	O	LEU	106	1.485	-12.035	15.788	1.00	0.00
ATOM	1616	CB	LEU	106	-0.059	-9.826	17.804	1.00	0.00
ATOM	1617	CG	LEU	106	-0.311	-10.739	19.004	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.643	-9.912	20.233	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.433	-11.720	18.704	1.00	0.00
ATOM	1622	H	LEU	106	1.338	-7.913	16.980	1.00	0.00
ATOM	1623	HA	LEU	106	1.970	-10.524	17.753	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.853	-9.978	17.087	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.106	-8.802	18.148	1.00	0.00
ATOM	1626	HG	LEU	106	0.586	-11.305	19.212	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.630	-10.173	20.587	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.618	-8.862	19.979	1.00	0.00
ATOM	1629	3HD1	LEU	106	0.082	-10.112	21.008	1.00	0.00
ATOM	1630	1HD2	LEU	106	-2.291	-11.481	19.317	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.103	-12.724	18.923	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.705	-11.649	17.661	1.00	0.00
ATOM	1633	N	CYS	107	0.476	-10.261	14.840	1.00	0.00
ATOM	1634	CA	CYS	107	0.204	-10.911	13.567	1.00	0.00
ATOM	1637	C	CYS	107	1.490	-11.374	12.896	1.00	0.00
ATOM	1638	O	CYS	107	1.549	-12.478	12.358	1.00	0.00
ATOM	1635	CB	CYS	107	-0.557	-9.948	12.653	1.00	0.00
ATOM	1636	SG	CYS	107	-2.279	-9.674	13.134	1.00	0.00
ATOM	1639	H	CYS	107	0.193	-9.327	14.964	1.00	0.00
ATOM	1640	HA	CYS	107	-0.413	-11.774	13.759	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.553	-10.334	11.648	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.058	-8.990	12.660	1.00	0.00
ATOM	1643	HG	CYS	107	-2.747	-10.806	13.642	1.00	0.00
ATOM	1644	N	ALA	108	2.517	-10.532	12.937	1.00	0.00
ATOM	1645	CA	ALA	108	3.803	-10.863	12.334	1.00	0.00
ATOM	1647	C	ALA	108	4.332	-12.185	12.876	1.00	0.00
ATOM	1648	O	ALA	108	4.610	-13.112	12.116	1.00	0.00
ATOM	1646	CB	ALA	108	4.807	-9.746	12.579	1.00	0.00
ATOM	1649	H	ALA	108	2.408	-9.666	13.386	1.00	0.00
ATOM	1650	HA	ALA	108	3.657	-10.956	11.267	1.00	0.00
ATOM	1651	1HB	ALA	108	5.046	-9.701	13.632	1.00	0.00
ATOM	1652	2HB	ALA	108	4.381	-8.803	12.267	1.00	0.00
ATOM	1653	3HB	ALA	108	5.706	-9.939	12.014	1.00	0.00
ATOM	1654	N	GLU	109	4.459	-12.270	14.192	1.00	0.00
ATOM	1655	CA	GLU	109	4.953	-13.479	14.839	1.00	0.00
ATOM	1661	C	GLU	109	3.974	-14.644	14.694	1.00	0.00
ATOM	1662	O	GLU	109	4.354	-15.802	14.859	1.00	0.00
ATOM	1656	CB	GLU	109	5.252	-13.213	16.308	1.00	0.00
ATOM	1657	CG	GLU	109	6.603	-12.558	16.510	1.00	0.00
ATOM	1658	CD	GLU	109	7.403	-13.181	17.633	1.00	0.00
ATOM	1659	OE1	GLU	109	8.082	-14.202	17.384	1.00	0.00
ATOM	1660	OE2	GLU	109	7.370	-12.650	18.759	1.00	0.00
ATOM	1663	H	GLU	109	4.215	-11.499	14.747	1.00	0.00
ATOM	1664	HA	GLU	109	5.878	-13.745	14.352	1.00	0.00
ATOM	1665	1HB	GLU	109	5.244	-14.149	16.846	1.00	0.00
ATOM	1666	2HB	GLU	109	4.490	-12.563	16.712	1.00	0.00
ATOM	1667	1HG	GLU	109	6.449	-11.516	16.727	1.00	0.00
ATOM	1668	2HG	GLU	109	7.170	-12.650	15.595	1.00	0.00
ATOM	1669	N	SER	110	2.723	-14.344	14.364	1.00	0.00
ATOM	1670	CA	SER	110	1.725	-15.389	14.189	1.00	0.00



ATOM	1673	C	SER	110	1.913	-16.064	12.832	1.00	0.00
ATOM	1674	O	SER	110	1.697	-17.267	12.694	1.00	0.00
ATOM	1671	CB	SER	110	0.313	-14.811	14.308	1.00	0.00
ATOM	1672	OG	SER	110	0.080	-14.306	15.611	1.00	0.00
ATOM	1675	H	SER	110	2.467	-13.405	14.228	1.00	0.00
ATOM	1676	HA	SER	110	1.874	-16.123	14.966	1.00	0.00
ATOM	1677	1HB	SER	110	-0.410	-15.585	14.100	1.00	0.00
ATOM	1678	2HB	SER	110	0.194	-14.006	13.597	1.00	0.00
ATOM	1679	HG	SER	110	0.742	-13.633	15.820	1.00	0.00
ATOM	1680	N	VAL	111	2.356	-15.292	11.843	1.00	0.00
ATOM	1681	CA	VAL	111	2.611	-15.827	10.509	1.00	0.00
ATOM	1685	C	VAL	111	3.909	-16.632	10.526	1.00	0.00
ATOM	1686	O	VAL	111	4.140	-17.502	9.688	1.00	0.00
ATOM	1682	CB	VAL	111	2.721	-14.706	9.446	1.00	0.00
ATOM	1683	CG1	VAL	111	2.845	-15.287	8.045	1.00	0.00
ATOM	1684	CG2	VAL	111	1.525	-13.769	9.520	1.00	0.00
ATOM	1687	H	VAL	111	2.537	-14.343	12.022	1.00	0.00
ATOM	1688	HA	VAL	111	1.791	-16.480	10.244	1.00	0.00
ATOM	1689	HB	VAL	111	3.612	-14.129	9.651	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.497	-16.149	8.070	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.257	-14.542	7.380	1.00	0.00
ATOM	1692	3HG1	VAL	111	1.870	-15.586	7.691	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.146	-13.590	8.524	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.829	-12.832	9.963	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.751	-14.219	10.124	1.00	0.00
ATOM	1696	N	ASN	112	4.747	-16.327	11.509	1.00	0.00
ATOM	1697	CA	ASN	112	6.027	-17.002	11.679	1.00	0.00
ATOM	1702	C	ASN	112	5.853	-18.291	12.481	1.00	0.00
ATOM	1703	O	ASN	112	6.805	-19.053	12.666	1.00	0.00
ATOM	1698	CB	ASN	112	7.018	-16.085	12.406	1.00	0.00
ATOM	1699	CG	ASN	112	7.661	-15.048	11.503	1.00	0.00
ATOM	1700	OD1	ASN	112	8.670	-15.312	10.850	1.00	0.00
ATOM	1701	ND2	ASN	112	7.086	-13.853	11.470	1.00	0.00
ATOM	1704	H	ASN	112	4.491	-15.630	12.145	1.00	0.00
ATOM	1705	HA	ASN	112	6.416	-17.242	10.701	1.00	0.00
ATOM	1706	1HB	ASN	112	7.802	-16.690	12.840	1.00	0.00
ATOM	1707	2HB	ASN	112	6.498	-15.565	13.197	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.282	-13.709	12.018	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.482	-13.157	10.905	1.00	0.00
ATOM	1710	N	LYS	113	4.638	-18.525	12.962	1.00	0.00
ATOM	1711	CA	LYS	113	4.338	-19.712	13.750	1.00	0.00
ATOM	1717	C	LYS	113	3.067	-20.389	13.239	1.00	0.00
ATOM	1718	O	LYS	113	2.617	-20.126	12.124	1.00	0.00
ATOM	1712	CB	LYS	113	4.182	-19.339	15.231	1.00	0.00
ATOM	1713	CG	LYS	113	5.001	-20.205	16.181	1.00	0.00
ATOM	1714	CD	LYS	113	4.432	-20.174	17.595	1.00	0.00
ATOM	1715	CE	LYS	113	5.417	-20.722	18.617	1.00	0.00
ATOM	1716	NZ	LYS	113	4.724	-21.409	19.744	1.00	0.00
ATOM	1719	H	LYS	113	3.921	-17.880	12.782	1.00	0.00
ATOM	1720	HA	LYS	113	5.165	-20.398	13.645	1.00	0.00
ATOM	1721	1HB	LYS	113	3.140	-19.432	15.503	1.00	0.00
ATOM	1722	2HB	LYS	113	4.487	-18.311	15.364	1.00	0.00
ATOM	1723	1HG	LYS	113	6.017	-19.839	16.202	1.00	0.00
ATOM	1724	2HG	LYS	113	4.992	-21.224	15.822	1.00	0.00
ATOM	1725	1HD	LYS	113	3.532	-20.771	17.621	1.00	0.00
ATOM	1726	2HD	LYS	113	4.194	-19.153	17.852	1.00	0.00
ATOM	1727	1HE	LYS	113	6.002	-19.904	19.011	1.00	0.00
ATOM	1728	2HE	LYS	113	6.071	-21.428	18.127	1.00	0.00
ATOM	1729	1HZ	LYS	113	4.139	-20.732	20.276	1.00	0.00
ATOM	1730	2HZ	LYS	113	5.422	-21.832	20.395	1.00	0.00
ATOM	1731	3HZ	LYS	113	4.109	-22.170	19.377	1.00	0.00
ATOM	1732	N	GLU	114	2.491	-21.257	14.061	1.00	0.00
ATOM	1733	CA	GLU	114	1.273	-21.977	13.702	1.00	0.00
ATOM	1739	C	GLU	114	0.037	-21.177	14.113	1.00	0.00
ATOM	1740	O	GLU	114	-0.819	-21.670	14.852	1.00	0.00
ATOM	1734	CB	GLU	114	1.260	-23.342	14.394	1.00	0.00
ATOM	1735	CG	GLU	114	2.593	-24.068	14.330	1.00	0.00
ATOM	1736	CD	GLU	114	3.003	-24.636	15.671	1.00	0.00
ATOM	1737	OE1	GLU	114	2.611	-25.776	15.990	1.00	0.00
ATOM	1738	OE2	GLU	114	3.713	-23.933	16.421	1.00	0.00
ATOM	1741	H	GLU	114	2.897	-21.422	14.936	1.00	0.00
ATOM	1742	HA	GLU	114	1.265	-22.119	12.632	1.00	0.00
ATOM	1743	1HB	GLU	114	0.513	-23.964	13.923	1.00	0.00



ATOM	1744	2HB	GLU	114	0.999	-23.203	15.432	1.00	0.00
ATOM	1745	1HG	GLU	114	3.353	-23.373	14.003	1.00	0.00
ATOM	1746	2HG	GLU	114	2.516	-24.879	13.620	1.00	0.00
ATOM	1747	N	MET	115	-0.047	-19.938	13.649	1.00	0.00
ATOM	1748	CA	MET	115	-1.169	-19.073	13.989	1.00	0.00
ATOM	1753	C	MET	115	-1.638	-18.281	12.772	1.00	0.00
ATOM	1754	O	MET	115	-1.911	-17.084	12.869	1.00	0.00
ATOM	1749	CB	MET	115	-0.775	-18.110	15.114	1.00	0.00
ATOM	1750	CG	MET	115	-0.652	-18.771	16.475	1.00	0.00
ATOM	1751	SD	MET	115	1.054	-19.179	16.902	1.00	0.00
ATOM	1752	CE	MET	115	0.821	-20.675	17.859	1.00	0.00
ATOM	1755	H	MET	115	0.671	-19.591	13.073	1.00	0.00
ATOM	1756	HA	MET	115	-1.978	-19.699	14.331	1.00	0.00
ATOM	1757	1HB	MET	115	-1.522	-17.332	15.182	1.00	0.00
ATOM	1758	2HB	MET	115	0.176	-17.661	14.869	1.00	0.00
ATOM	1759	1HG	MET	115	-1.234	-19.681	16.473	1.00	0.00
ATOM	1760	2HG	MET	115	-1.042	-18.098	17.223	1.00	0.00
ATOM	1761	1HE	MET	115	1.402	-20.615	18.768	1.00	0.00
ATOM	1762	2HE	MET	115	1.144	-21.527	17.281	1.00	0.00
ATOM	1763	3HE	MET	115	-0.224	-20.784	18.109	1.00	0.00
ATOM	1764	N	GLU	116	-1.733	-18.955	11.634	1.00	0.00
ATOM	1765	CA	GLU	116	-2.168	-18.319	10.390	1.00	0.00
ATOM	1771	C	GLU	116	-3.588	-17.743	10.505	1.00	0.00
ATOM	1772	O	GLU	116	-3.789	-16.552	10.253	1.00	0.00
ATOM	1766	CB	GLU	116	-2.084	-19.300	9.210	1.00	0.00
ATOM	1767	CG	GLU	116	-0.914	-20.268	9.292	1.00	0.00
ATOM	1768	CD	GLU	116	-1.296	-21.583	9.941	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.580	-21.586	11.155	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.316	-22.618	9.240	1.00	0.00
ATOM	1773	H	GLU	116	-1.505	-19.917	11.626	1.00	0.00
ATOM	1774	HA	GLU	116	-1.490	-17.500	10.200	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.991	-18.734	8.294	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.997	-19.876	9.172	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.124	-19.812	9.871	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.557	-20.468	8.292	1.00	0.00
ATOM	1779	N	PRO	117	-4.603	-18.554	10.887	1.00	0.00
ATOM	1780	CA	PRO	117	-5.980	-18.066	11.016	1.00	0.00
ATOM	1784	C	PRO	117	-6.121	-17.024	12.121	1.00	0.00
ATOM	1785	O	PRO	117	-7.003	-16.169	12.073	1.00	0.00
ATOM	1781	CB	PRO	117	-6.792	-19.323	11.365	1.00	0.00
ATOM	1782	CG	PRO	117	-5.911	-20.472	11.009	1.00	0.00
ATOM	1783	CD	PRO	117	-4.508	-19.989	11.218	1.00	0.00
ATOM	1786	HA	PRO	117	-6.338	-17.650	10.085	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.705	-19.335	10.789	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.027	-19.320	12.419	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.064	-20.747	9.976	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.120	-21.311	11.658	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.828	-20.493	10.548	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.206	-20.131	12.246	1.00	0.00
ATOM	1793	N	LEU	118	-5.241	-17.100	13.115	1.00	0.00
ATOM	1794	CA	LEU	118	-5.264	-16.171	14.239	1.00	0.00
ATOM	1799	C	LEU	118	-4.940	-14.749	13.790	1.00	0.00
ATOM	1800	O	LEU	118	-5.397	-13.783	14.400	1.00	0.00
ATOM	1795	CB	LEU	118	-4.280	-16.620	15.326	1.00	0.00
ATOM	1796	CG	LEU	118	-4.906	-17.362	16.511	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.935	-16.484	17.210	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.535	-18.670	16.054	1.00	0.00
ATOM	1801	H	LEU	118	-4.557	-17.803	13.090	1.00	0.00
ATOM	1802	HA	LEU	118	-6.262	-16.182	14.650	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.773	-15.747	15.708	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.546	-17.268	14.870	1.00	0.00
ATOM	1805	HG	LEU	118	-4.131	-17.596	17.228	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.844	-17.046	17.365	1.00	0.00
ATOM	1807	2HD1	LEU	118	-6.146	-15.621	16.597	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.545	-16.160	18.163	1.00	0.00
ATOM	1809	1HD2	LEU	118	-5.354	-19.436	16.796	1.00	0.00
ATOM	1810	2HD2	LEU	118	-5.098	-18.970	15.114	1.00	0.00
ATOM	1811	3HD2	LEU	118	-6.600	-18.535	15.930	1.00	0.00
ATOM	1812	N	VAL	119	-4.165	-14.629	12.718	1.00	0.00
ATOM	1813	CA	VAL	119	-3.786	-13.326	12.177	1.00	0.00
ATOM	1817	C	VAL	119	-5.020	-12.519	11.782	1.00	0.00
ATOM	1818	O	VAL	119	-5.170	-11.364	12.184	1.00	0.00
ATOM	1814	CB	VAL	119	-2.858	-13.474	10.951	1.00	0.00



ATOM	1815	CG1	VAL	119	-2.577	-12.123	10.310	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.561	-14.160	11.345	1.00	0.00
ATOM	1819	H	VAL	119	-3.840	-15.442	12.273	1.00	0.00
ATOM	1820	HA	VAL	119	-3.251	-12.787	12.948	1.00	0.00
ATOM	1821	HB	VAL	119	-3.358	-14.094	10.222	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.139	-12.271	9.334	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.890	-11.565	10.930	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.500	-11.572	10.211	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.963	-14.335	10.463	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.784	-15.103	11.822	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.015	-13.529	12.032	1.00	0.00
ATOM	1828	N	GLY	120	-5.907	-13.139	11.005	1.00	0.00
ATOM	1829	CA	GLY	120	-7.120	-12.462	10.580	1.00	0.00
ATOM	1830	C	GLY	120	-8.004	-12.101	11.754	1.00	0.00
ATOM	1831	O	GLY	120	-8.680	-11.074	11.739	1.00	0.00
ATOM	1832	H	GLY	120	-5.738	-14.063	10.726	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.668	-13.103	9.911	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.849	-11.558	10.054	1.00	0.00
ATOM	1835	N	GLN	121	-7.974	-12.937	12.785	1.00	0.00
ATOM	1836	CA	GLN	121	-8.753	-12.692	13.985	1.00	0.00
ATOM	1842	C	GLN	121	-8.258	-11.429	14.668	1.00	0.00
ATOM	1843	O	GLN	121	-9.029	-10.523	14.932	1.00	0.00
ATOM	1837	CB	GLN	121	-8.665	-13.881	14.947	1.00	0.00
ATOM	1838	CG	GLN	121	-8.864	-15.237	14.288	1.00	0.00
ATOM	1839	CD	GLN	121	-10.248	-15.415	13.690	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.433	-16.185	12.748	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.227	-14.710	14.229	1.00	0.00
ATOM	1844	H	GLN	121	-7.400	-13.725	12.742	1.00	0.00
ATOM	1845	HA	GLN	121	-9.784	-12.544	13.696	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.421	-13.765	15.710	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.692	-13.875	15.416	1.00	0.00
ATOM	1848	1HG	GLN	121	-8.708	-16.007	15.030	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.134	-15.347	13.499	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.014	-14.115	14.974	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.132	-14.802	13.854	1.00	0.00
ATOM	1852	N	VAL	122	-6.963	-11.352	14.930	1.00	0.00
ATOM	1853	CA	VAL	122	-6.398	-10.166	15.563	1.00	0.00
ATOM	1857	C	VAL	122	-6.686	-8.930	14.714	1.00	0.00
ATOM	1858	O	VAL	122	-6.909	-7.839	15.239	1.00	0.00
ATOM	1854	CB	VAL	122	-4.873	-10.308	15.781	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.312	-9.106	16.524	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.555	-11.591	16.533	1.00	0.00
ATOM	1859	H	VAL	122	-6.373	-12.097	14.679	1.00	0.00
ATOM	1860	HA	VAL	122	-6.883	-10.038	16.529	1.00	0.00
ATOM	1861	HB	VAL	122	-4.395	-10.361	14.812	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.235	-9.171	16.554	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.700	-9.094	17.533	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.604	-8.199	16.016	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.131	-11.626	17.446	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.501	-11.617	16.771	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.806	-12.442	15.917	1.00	0.00
ATOM	1868	N	GLN	123	-6.711	-9.122	13.402	1.00	0.00
ATOM	1869	CA	GLN	123	-7.001	-8.042	12.477	1.00	0.00
ATOM	1875	C	GLN	123	-8.426	-7.534	12.681	1.00	0.00
ATOM	1876	O	GLN	123	-8.656	-6.325	12.767	1.00	0.00
ATOM	1870	CB	GLN	123	-6.804	-8.511	11.032	1.00	0.00
ATOM	1871	CG	GLN	123	-6.334	-7.411	10.094	1.00	0.00
ATOM	1872	CD	GLN	123	-5.831	-7.950	8.769	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.463	-8.802	8.151	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.686	-7.456	8.324	1.00	0.00
ATOM	1877	H	GLN	123	-6.547	-10.024	13.048	1.00	0.00
ATOM	1878	HA	GLN	123	-6.315	-7.235	12.685	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.742	-8.898	10.659	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.070	-9.304	11.020	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.533	-6.867	10.573	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.159	-6.741	9.903	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.233	-6.779	8.867	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.342	-7.788	7.471	1.00	0.00
ATOM	1885	N	GLU	124	-9.378	-8.458	12.771	1.00	0.00
ATOM	1886	CA	GLU	124	-10.770	-8.086	12.976	1.00	0.00
ATOM	1892	C	GLU	124	-11.000	-7.585	14.399	1.00	0.00
ATOM	1893	O	GLU	124	-11.730	-6.618	14.594	1.00	0.00
ATOM	1887	CB	GLU	124	-11.716	-9.245	12.647	1.00	0.00



ATOM	1888	CG	GLU	124	-11.477	-10.493	13.471	1.00	0.00
ATOM	1889	CD	GLU	124	-12.601	-11.501	13.353	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.347	-11.454	12.352	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.743	-12.345	14.262	1.00	0.00
ATOM	1894	H	GLU	124	-9.137	-9.409	12.705	1.00	0.00
ATOM	1895	HA	GLU	124	-10.981	-7.270	12.299	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.600	-9.501	11.604	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.733	-8.921	12.814	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.373	-10.210	14.507	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.557	-10.950	13.140	1.00	0.00
ATOM	1900	N	TRP	125	-10.362	-8.220	15.393	1.00	0.00
ATOM	1901	CA	TRP	125	-10.517	-7.780	16.782	1.00	0.00
ATOM	1912	C	TRP	125	-10.093	-6.325	16.897	1.00	0.00
ATOM	1913	O	TRP	125	-10.696	-5.535	17.624	1.00	0.00
ATOM	1902	CB	TRP	125	-9.648	-8.599	17.758	1.00	0.00
ATOM	1903	CG	TRP	125	-9.825	-10.088	17.719	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.889	-10.805	17.245	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.871	-11.048	18.186	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.638	-12.154	17.375	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.403	-12.324	17.944	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.609	-10.942	18.778	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.711	-13.491	18.267	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.928	-12.097	19.102	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.476	-13.358	18.840	1.00	0.00
ATOM	1914	H	TRP	125	-9.770	-8.988	15.186	1.00	0.00
ATOM	1915	HA	TRP	125	-11.558	-7.866	17.052	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.849	-8.269	18.762	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.613	-8.399	17.536	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.783	-10.367	16.828	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.246	-12.873	17.103	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.176	-9.977	19.006	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.120	-14.471	18.071	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.950	-12.035	19.556	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.907	-14.235	19.119	1.00	0.00
ATOM	1924	N	MET	126	-9.038	-5.994	16.170	1.00	0.00
ATOM	1925	CA	MET	126	-8.493	-4.646	16.178	1.00	0.00
ATOM	1930	C	MET	126	-9.400	-3.668	15.444	1.00	0.00
ATOM	1931	O	MET	126	-9.810	-2.652	16.003	1.00	0.00
ATOM	1926	CB	MET	126	-7.106	-4.641	15.537	1.00	0.00
ATOM	1927	CG	MET	126	-6.089	-3.779	16.264	1.00	0.00
ATOM	1928	SD	MET	126	-4.664	-3.375	15.234	1.00	0.00
ATOM	1929	CE	MET	126	-4.305	-4.970	14.501	1.00	0.00
ATOM	1932	H	MET	126	-8.607	-6.688	15.612	1.00	0.00
ATOM	1933	HA	MET	126	-8.408	-4.330	17.204	1.00	0.00
ATOM	1934	1HB	MET	126	-7.194	-4.278	14.523	1.00	0.00
ATOM	1935	2HB	MET	126	-6.733	-5.654	15.513	1.00	0.00
ATOM	1936	1HG	MET	126	-5.746	-4.310	17.139	1.00	0.00
ATOM	1937	2HG	MET	126	-6.569	-2.860	16.568	1.00	0.00
ATOM	1938	1HE	MET	126	-5.155	-5.300	13.923	1.00	0.00
ATOM	1939	2HE	MET	126	-4.098	-5.686	15.283	1.00	0.00
ATOM	1940	3HE	MET	126	-3.442	-4.883	13.855	1.00	0.00
ATOM	1941	N	VAL	127	-9.698	-3.970	14.187	1.00	0.00
ATOM	1942	CA	VAL	127	-10.536	-3.095	13.379	1.00	0.00
ATOM	1946	C	VAL	127	-11.937	-2.927	13.970	1.00	0.00
ATOM	1947	O	VAL	127	-12.529	-1.858	13.851	1.00	0.00
ATOM	1943	CB	VAL	127	-10.618	-3.568	11.903	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.572	-4.742	11.734	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.027	-2.413	10.997	1.00	0.00
ATOM	1948	H	VAL	127	-9.331	-4.792	13.790	1.00	0.00
ATOM	1949	HA	VAL	127	-10.061	-2.123	13.380	1.00	0.00
ATOM	1950	HB	VAL	127	-9.633	-3.893	11.601	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.956	-4.750	10.724	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.391	-4.646	12.431	1.00	0.00
ATOM	1953	3HG1	VAL	127	-11.044	-5.665	11.924	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.317	-1.567	11.601	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.858	-2.717	10.379	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.193	-2.138	10.368	1.00	0.00
ATOM	1957	N	GLU	128	-12.470	-3.962	14.618	1.00	0.00
ATOM	1958	CA	GLU	128	-13.798	-3.859	15.202	1.00	0.00
ATOM	1964	C	GLU	128	-13.776	-2.986	16.444	1.00	0.00
ATOM	1965	O	GLU	128	-14.618	-2.102	16.602	1.00	0.00
ATOM	1959	CB	GLU	128	-14.366	-5.240	15.519	1.00	0.00
ATOM	1960	CG	GLU	128	-15.005	-5.904	14.311	1.00	0.00



ATOM	1961	CD	GLU	128	-15.862	-7.100	14.671	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.387	-7.153	15.803	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.024	-7.989	13.811	1.00	0.00
ATOM	1966	H	GLU	128	-11.962	-4.808	14.706	1.00	0.00
ATOM	1967	HA	GLU	128	-14.430	-3.383	14.471	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.115	-5.144	16.291	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.568	-5.875	15.876	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.222	-6.230	13.643	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.626	-5.179	13.808	1.00	0.00
ATOM	1972	N	TYR	129	-12.798	-3.211	17.310	1.00	0.00
ATOM	1973	CA	TYR	129	-12.664	-2.419	18.524	1.00	0.00
ATOM	1982	C	TYR	129	-12.476	-0.952	18.167	1.00	0.00
ATOM	1983	O	TYR	129	-12.983	-0.049	18.842	1.00	0.00
ATOM	1974	CB	TYR	129	-11.464	-2.895	19.347	1.00	0.00
ATOM	1975	CG	TYR	129	-11.541	-2.490	20.801	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.091	-1.242	21.213	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.077	-3.343	21.757	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.173	-0.854	22.534	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.159	-2.961	23.084	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.707	-1.715	23.465	1.00	0.00
ATOM	1981	OH	TYR	129	-11.796	-1.322	24.779	1.00	0.00
ATOM	1984	H	TYR	129	-12.141	-3.919	17.122	1.00	0.00
ATOM	1985	HA	TYR	129	-13.566	-2.532	19.104	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.564	-2.468	18.931	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.402	-3.969	19.295	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.672	-0.568	20.481	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.429	-4.316	21.455	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.815	0.121	22.833	1.00	0.00
ATOM	1991	HE2	TYR	129	-12.578	-3.638	23.815	1.00	0.00
ATOM	1992	HH	TYR	129	-12.303	-1.977	25.285	1.00	0.00
ATOM	1993	N	LEU	130	-11.738	-0.728	17.096	1.00	0.00
ATOM	1994	CA	LEU	130	-11.457	0.614	16.627	1.00	0.00
ATOM	1999	C	LEU	130	-12.689	1.270	16.016	1.00	0.00
ATOM	2000	O	LEU	130	-13.076	2.359	16.419	1.00	0.00
ATOM	1995	CB	LEU	130	-10.327	0.590	15.605	1.00	0.00
ATOM	1996	CG	LEU	130	-8.993	1.133	16.108	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.939	0.038	16.121	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.546	2.306	15.251	1.00	0.00
ATOM	2001	H	LEU	130	-11.367	-1.498	16.605	1.00	0.00
ATOM	2002	HA	LEU	130	-11.135	1.201	17.479	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.634	1.183	14.759	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.180	-0.431	15.280	1.00	0.00
ATOM	2005	HC	LEU	130	-9.117	1.487	17.121	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.240	0.201	15.314	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.416	-0.922	15.995	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.412	0.056	17.064	1.00	0.00
ATOM	2009	1HD2	LEU	130	-9.340	3.037	15.199	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.312	1.957	14.257	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.668	2.759	15.690	1.00	0.00
ATOM	2012	N	GLU	131	-13.290	0.613	15.037	1.00	0.00
ATOM	2013	CA	GLU	131	-14.466	1.152	14.357	1.00	0.00
ATOM	2019	C	GLU	131	-15.628	1.407	15.317	1.00	0.00
ATOM	2020	O	GLU	131	-16.422	2.321	15.108	1.00	0.00
ATOM	2014	CB	GLU	131	-14.911	0.196	13.255	1.00	0.00
ATOM	2015	CG	GLU	131	-14.088	0.313	11.984	1.00	0.00
ATOM	2016	CD	GLU	131	-14.934	0.657	10.778	1.00	0.00
ATOM	2017	OE1	GLU	131	-16.175	0.567	10.870	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.365	1.017	9.727	1.00	0.00
ATOM	2021	H	GLU	131	-12.927	-0.254	14.746	1.00	0.00
ATOM	2022	HA	GLU	131	-14.182	2.088	13.908	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.942	0.400	13.010	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.830	-0.818	13.617	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.591	-0.629	11.802	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.350	1.089	12.118	1.00	0.00
ATOM	2027	N	THR	132	-15.739	0.586	16.349	1.00	0.00
ATOM	2028	CA	THR	132	-16.829	0.721	17.305	1.00	0.00
ATOM	2032	C	THR	132	-16.570	1.785	18.381	1.00	0.00
ATOM	2033	O	THR	132	-17.510	2.440	18.837	1.00	0.00
ATOM	2029	CB	THR	132	-17.124	-0.628	17.990	1.00	0.00
ATOM	2030	OG1	THR	132	-17.157	-1.675	17.012	1.00	0.00
ATOM	2031	CG2	THR	132	-18.452	-0.592	18.732	1.00	0.00
ATOM	2034	H	THR	132	-15.090	-0.141	16.457	1.00	0.00
ATOM	2035	HA	THR	132	-17.710	1.004	16.750	1.00	0.00



ATOM	2036	HB	THR	132	-16.336	-0.834	18.701	1.00	0.00
ATOM	2037	HG1	THR	132	-16.253	-1.924	16.776	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.807	0.427	18.786	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.317	-0.980	19.730	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.176	-1.198	18.206	1.00	0.00
ATOM	2041	N	ARG	133	-15.322	1.947	18.822	1.00	0.00
ATOM	2042	CA	ARG	133	-15.045	2.925	19.879	1.00	0.00
ATOM	2050	C	ARG	133	-13.894	3.881	19.558	1.00	0.00
ATOM	2051	O	ARG	133	-14.001	5.077	19.828	1.00	0.00
ATOM	2043	CB	ARG	133	-14.767	2.221	21.218	1.00	0.00
ATOM	2044	CG	ARG	133	-15.404	0.844	21.365	1.00	0.00
ATOM	2045	CD	ARG	133	-15.850	0.585	22.800	1.00	0.00
ATOM	2046	NE	ARG	133	-15.647	-0.811	23.202	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.122	-1.186	24.373	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.807	-0.284	25.294	1.00	0.00
ATOM	2049	NH2	ARG	133	-14.938	-2.471	24.636	1.00	0.00
ATOM	2052	H	ARG	133	-14.596	1.395	18.461	1.00	0.00
ATOM	2053	HA	ARG	133	-15.936	3.524	19.991	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.137	2.848	22.018	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.700	2.109	21.333	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.681	0.093	21.081	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.264	0.784	20.715	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.900	0.824	22.884	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.282	1.223	23.460	1.00	0.00
ATOM	2060	HE	ARG	133	-15.907	-1.506	22.559	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.965	0.694	25.127	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.403	-0.579	26.166	1.00	0.00
ATOM	2063	1HH2	ARG	133	-15.198	-3.172	23.957	1.00	0.00
ATOM	2064	2HH2	ARG	133	-14.514	-2.754	25.513	1.00	0.00
ATOM	2065	N	LEU	134	-12.793	3.373	19.015	1.00	0.00
ATOM	2066	CA	LEU	134	-11.644	4.232	18.710	1.00	0.00
ATOM	2071	C	LEU	134	-12.016	5.340	17.732	1.00	0.00
ATOM	2072	O	LEU	134	-11.695	6.507	17.959	1.00	0.00
ATOM	2067	CB	LEU	134	-10.493	3.409	18.143	1.00	0.00
ATOM	2068	CG	LEU	134	-9.314	3.188	19.089	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.661	4.516	19.454	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.764	2.446	20.335	1.00	0.00
ATOM	2073	H	LEU	134	-12.741	2.410	18.827	1.00	0.00
ATOM	2074	HA	LEU	134	-11.323	4.685	19.636	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.126	3.906	17.258	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.879	2.441	17.857	1.00	0.00
ATOM	2077	HG	LEU	134	-8.578	2.580	18.587	1.00	0.00
ATOM	2078	1HD1	LEU	134	-8.634	4.621	20.529	1.00	0.00
ATOM	2079	2HD1	LEU	134	-9.232	5.328	19.029	1.00	0.00
ATOM	2080	3HD1	LEU	134	-7.654	4.541	19.065	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.588	2.976	20.792	1.00	0.00
ATOM	2082	2HD2	LEU	134	-8.944	2.386	21.035	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.082	1.450	20.066	1.00	0.00
ATOM	2084	N	ALA	135	-12.685	4.962	16.649	1.00	0.00
ATOM	2085	CA	ALA	135	-13.107	5.903	15.626	1.00	0.00
ATOM	2087	C	ALA	135	-13.870	7.078	16.225	1.00	0.00
ATOM	2088	O	ALA	135	-13.692	8.212	15.787	1.00	0.00
ATOM	2086	CB	ALA	135	-13.958	5.198	14.581	1.00	0.00
ATOM	2089	H	ALA	135	-12.897	4.012	16.529	1.00	0.00
ATOM	2090	HA	ALA	135	-12.220	6.278	15.136	1.00	0.00
ATOM	2091	1HB	ALA	135	-15.001	5.291	14.842	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.688	4.153	14.543	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.788	5.648	13.614	1.00	0.00
ATOM	2094	N	ASP	136	-14.709	6.815	17.226	1.00	0.00
ATOM	2095	CA	ASP	136	-15.476	7.883	17.859	1.00	0.00
ATOM	2100	C	ASP	136	-14.550	8.900	18.511	1.00	0.00
ATOM	2101	O	ASP	136	-14.675	10.100	18.262	1.00	0.00
ATOM	2096	CB	ASP	136	-16.461	7.325	18.883	1.00	0.00
ATOM	2097	CG	ASP	136	-17.615	8.274	19.130	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.253	8.712	18.148	1.00	0.00
ATOM	2099	OD2	ASP	136	-17.885	8.592	20.305	1.00	0.00
ATOM	2102	H	ASP	136	-14.811	5.891	17.548	1.00	0.00
ATOM	2103	HA	ASP	136	-16.030	8.389	17.081	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.947	7.159	19.818	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.857	6.388	18.521	1.00	0.00
ATOM	2106	N	TRP	137	-13.602	8.419	19.314	1.00	0.00
ATOM	2107	CA	TRP	137	-12.643	9.302	19.957	1.00	0.00
ATOM	2118	C	TRP	137	-11.885	10.091	18.895	1.00	0.00



ATOM	2119	O	TRP	137	-11.750	11.311	18.979	1.00	0.00
ATOM	2108	CB	TRP	137	-11.658	8.484	20.807	1.00	0.00
ATOM	2109	CG	TRP	137	-10.550	9.301	21.413	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.507	9.799	22.678	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.329	9.710	20.783	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.342	10.498	22.874	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.603	10.460	21.724	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.780	9.519	19.512	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.361	11.013	21.428	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.551	10.068	19.224	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.851	10.807	20.179	1.00	0.00
ATOM	2120	H	TRP	137	-13.529	7.447	19.460	1.00	0.00
ATOM	2121	HA	TRP	137	-13.184	9.987	20.590	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.209	7.721	20.185	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.196	8.010	21.613	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.281	9.651	23.410	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.085	10.954	23.708	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.306	8.949	18.758	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.804	11.581	22.150	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.113	9.927	18.246	1.00	0.00
ATOM	2129	HM2	TRP	137	-5.889	11.220	19.910	1.00	0.00
ATOM	2130	N	ILE	138	-11.385	9.367	17.903	1.00	0.00
ATOM	2131	CA	ILE	138	-10.614	9.954	16.818	1.00	0.00
ATOM	2136	C	ILE	138	-11.400	11.027	16.068	1.00	0.00
ATOM	2137	O	ILE	138	-10.878	12.110	15.804	1.00	0.00
ATOM	2132	CB	ILE	138	-10.144	8.863	15.826	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.031	8.020	16.458	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.665	9.475	14.516	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.048	6.571	16.025	1.00	0.00
ATOM	2138	H	ILE	138	-11.528	8.393	17.911	1.00	0.00
ATOM	2139	HA	ILE	138	-9.737	10.411	17.251	1.00	0.00
ATOM	2140	HB	ILE	138	-10.987	8.226	15.607	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.136	8.047	17.533	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.072	8.436	16.184	1.00	0.00
ATOM	2143	1HG2	ILE	138	-8.597	9.337	14.421	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.893	10.531	14.508	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.165	8.994	13.690	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.275	6.030	16.550	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.869	6.511	14.961	1.00	0.00
ATOM	2148	3HD1	ILE	138	-10.010	6.138	16.254	1.00	0.00
ATOM	2149	N	HIS	139	-12.644	10.720	15.719	1.00	0.00
ATOM	2150	CA	HIS	139	-13.483	11.658	14.977	1.00	0.00
ATOM	2157	C	HIS	139	-13.715	12.950	15.754	1.00	0.00
ATOM	2158	O	HIS	139	-13.714	14.033	15.175	1.00	0.00
ATOM	2151	CB	HIS	139	-14.827	11.020	14.608	1.00	0.00
ATOM	2152	CG	HIS	139	-14.782	10.215	13.340	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.918	10.769	12.088	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.614	8.886	13.139	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.831	9.819	11.174	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.649	8.663	11.785	1.00	0.00
ATOM	2159	H	HIS	139	-13.006	9.833	15.959	1.00	0.00
ATOM	2160	HA	HIS	139	-12.959	11.903	14.065	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.564	11.799	14.480	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.138	10.364	15.406	1.00	0.00
ATOM	2163	HD1	HIS	139	-15.078	11.730	11.895	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.471	8.138	13.906	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.880	9.962	10.107	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.769	7.785	11.361	1.00	0.00
ATOM	2167	N	SER	140	-13.921	12.837	17.058	1.00	0.00
ATOM	2168	CA	SER	140	-14.167	14.010	17.890	1.00	0.00
ATOM	2171	C	SER	140	-12.876	14.760	18.236	1.00	0.00
ATOM	2172	O	SER	140	-12.892	15.976	18.429	1.00	0.00
ATOM	2169	CB	SER	140	-14.900	13.595	19.165	1.00	0.00
ATOM	2170	OG	SER	140	-16.104	12.911	18.855	1.00	0.00
ATOM	2173	H	SER	140	-13.921	11.944	17.473	1.00	0.00
ATOM	2174	HA	SER	140	-14.803	14.676	17.328	1.00	0.00
ATOM	2175	1HB	SER	140	-15.137	14.474	19.745	1.00	0.00
ATOM	2176	2HB	SER	140	-14.266	12.939	19.745	1.00	0.00
ATOM	2177	HG	SER	140	-16.856	13.416	19.198	1.00	0.00
ATOM	2178	N	SER	141	-11.767	14.037	18.332	1.00	0.00
ATOM	2179	CA	SER	141	-10.485	14.647	18.674	1.00	0.00
ATOM	2182	C	SER	141	-9.994	15.595	17.581	1.00	0.00
ATOM	2183	O	SER	141	-9.796	16.787	17.821	1.00	0.00



ATOM	2180	CB	SER	141	-9.434	13.565	18.939	1.00	0.00
ATOM	2181	OG	SER	141	-8.839	13.733	20.215	1.00	0.00
ATOM	2184	H	SER	141	-11.811	13.067	18.183	1.00	0.00
ATOM	2185	HA	SER	141	-10.628	15.213	19.571	1.00	0.00
ATOM	2186	1HB	SER	141	-8.663	13.625	18.186	1.00	0.00
ATOM	2187	2HB	SER	141	-9.902	12.594	18.898	1.00	0.00
ATOM	2188	HG	SER	141	-7.963	14.116	20.109	1.00	0.00
ATOM	2189	N	GLY	142	-9.800	15.057	16.392	1.00	0.00
ATOM	2190	CA	GLY	142	-9.323	15.852	15.275	1.00	0.00
ATOM	2191	C	GLY	142	-9.358	15.067	13.987	1.00	0.00
ATOM	2192	O	GLY	142	-9.195	15.615	12.896	1.00	0.00
ATOM	2193	H	GLY	142	-9.981	14.103	16.269	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.306	16.156	15.471	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.939	16.730	15.172	1.00	0.00
ATOM	2196	N	GLY	143	-9.582	13.770	14.123	1.00	0.00
ATOM	2197	CA	GLY	143	-9.644	12.902	12.971	1.00	0.00
ATOM	2198	C	GLY	143	-8.307	12.303	12.625	1.00	0.00
ATOM	2199	O	GLY	143	-7.276	12.723	13.147	1.00	0.00
ATOM	2200	H	GLY	143	-9.711	13.397	15.025	1.00	0.00
ATOM	2201	1HA	GLY	143	-10.000	13.464	12.127	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.332	12.106	13.172	1.00	0.00
ATOM	2203	N	TRP	144	-8.324	11.331	11.727	1.00	0.00
ATOM	2204	CA	TRP	144	-7.104	10.675	11.284	1.00	0.00
ATOM	2215	C	TRP	144	-6.201	11.695	10.610	1.00	0.00
ATOM	2216	O	TRP	144	-4.973	11.591	10.654	1.00	0.00
ATOM	2205	CB	TRP	144	-7.449	9.531	10.329	1.00	0.00
ATOM	2206	CG	TRP	144	-8.112	8.377	11.025	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.455	8.137	11.140	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.454	7.316	11.718	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.668	6.989	11.870	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.453	6.465	12.230	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.112	7.002	11.954	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.149	5.323	12.965	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.815	5.868	12.682	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.829	5.040	13.179	1.00	0.00
ATOM	2217	H	TRP	144	-9.178	11.053	11.338	1.00	0.00
ATOM	2218	HA	TRP	144	-6.598	10.278	12.152	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.543	9.171	9.863	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.122	9.898	9.568	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.224	8.768	10.722	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.545	6.603	12.093	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.314	7.629	11.575	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.918	4.672	13.356	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.779	5.603	12.872	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.548	4.162	13.745	1.00	0.00
ATOM	2227	N	ALA	145	-6.833	12.707	10.021	1.00	0.00
ATOM	2228	CA	ALA	145	-6.123	13.786	9.356	1.00	0.00
ATOM	2230	C	ALA	145	-5.246	14.543	10.349	1.00	0.00
ATOM	2231	O	ALA	145	-4.145	14.974	10.008	1.00	0.00
ATOM	2229	CB	ALA	145	-7.104	14.735	8.684	1.00	0.00
ATOM	2232	H	ALA	145	-7.811	12.733	10.052	1.00	0.00
ATOM	2233	HA	ALA	145	-5.494	13.351	8.591	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.618	15.229	7.856	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.436	15.474	9.398	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.955	14.177	8.321	1.00	0.00
ATOM	2237	N	GLU	146	-5.727	14.680	11.588	1.00	0.00
ATOM	2238	CA	GLU	146	-4.961	15.368	12.626	1.00	0.00
ATOM	2244	C	GLU	146	-3.677	14.587	12.904	1.00	0.00
ATOM	2245	O	GLU	146	-2.591	15.156	13.001	1.00	0.00
ATOM	2239	CB	GLU	146	-5.801	15.527	13.908	1.00	0.00
ATOM	2240	CG	GLU	146	-5.046	15.233	15.196	1.00	0.00
ATOM	2241	CD	GLU	146	-5.298	16.262	16.278	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.083	17.464	16.015	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.705	15.865	17.393	1.00	0.00
ATOM	2246	H	GLU	146	-6.610	14.293	11.814	1.00	0.00
ATOM	2247	HA	GLU	146	-4.699	16.346	12.250	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.650	14.860	13.855	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.162	16.540	13.962	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.987	15.211	14.981	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.355	14.266	15.565	1.00	0.00
ATOM	2252	N	PHE	147	-3.823	13.275	12.999	1.00	0.00
ATOM	2253	CA	PHE	147	-2.704	12.374	13.242	1.00	0.00
ATOM	2261	C	PHE	147	-1.726	12.404	12.069	1.00	0.00



ATOM	2262	O	PHE	147	-0.512	12.296	12.259	1.00	0.00
ATOM	2254	CB	PHE	147	-3.247	10.955	13.467	1.00	0.00
ATOM	2255	CG	PHE	147	-2.212	9.931	13.832	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.133	10.259	14.637	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.326	8.633	13.363	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.188	9.308	14.964	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.384	7.681	13.686	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.313	8.018	14.487	1.00	0.00
ATOM	2263	H	PHE	147	-4.721	12.897	12.891	1.00	0.00
ATOM	2264	HA	PHE	147	-2.183	12.705	14.132	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.735	10.624	12.561	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.973	10.983	14.265	1.00	0.00
ATOM	2267	HD1	PHE	147	-3.163	8.369	12.734	1.00	0.00
ATOM	2268	HD2	PHE	147	-1.036	11.267	15.011	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.484	6.671	13.314	1.00	0.00
ATOM	2270	HE2	PHE	147	0.651	9.573	15.592	1.00	0.00
ATOM	2271	HZ	PHE	147	0.430	7.273	14.737	1.00	0.00
ATOM	2272	N	THR	148	-2.253	12.575	10.861	1.00	0.00
ATOM	2273	CA	THR	148	-1.409	12.639	9.673	1.00	0.00
ATOM	2277	C	THR	148	-0.613	13.939	9.656	1.00	0.00
ATOM	2278	O	THR	148	0.463	14.013	9.074	1.00	0.00
ATOM	2274	CB	THR	148	-2.223	12.518	8.370	1.00	0.00
ATOM	2275	OG1	THR	148	-3.374	11.694	8.576	1.00	0.00
ATOM	2276	CG2	THR	148	-1.374	11.920	7.260	1.00	0.00
ATOM	2279	H	THR	148	-3.226	12.672	10.771	1.00	0.00
ATOM	2280	HA	THR	148	-0.717	11.810	9.718	1.00	0.00
ATOM	2281	HB	THR	148	-2.544	13.503	8.068	1.00	0.00
ATOM	2282	HG1	THR	148	-3.640	11.723	9.502	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.336	12.165	7.428	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.690	12.322	6.309	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.494	10.846	7.255	1.00	0.00
ATOM	2286	N	ALA	149	-1.137	14.956	10.317	1.00	0.00
ATOM	2287	CA	ALA	149	-0.457	16.235	10.395	1.00	0.00
ATOM	2289	C	ALA	149	0.519	16.224	11.561	1.00	0.00
ATOM	2290	O	ALA	149	1.568	16.859	11.513	1.00	0.00
ATOM	2288	CB	ALA	149	-1.460	17.369	10.542	1.00	0.00
ATOM	2291	H	ALA	149	-1.994	14.839	10.781	1.00	0.00
ATOM	2292	HA	ALA	149	0.093	16.380	9.475	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.935	17.555	9.589	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.950	18.261	10.871	1.00	0.00
ATOM	2295	3HB	ALA	149	-2.209	17.094	11.270	1.00	0.00
ATOM	2296	N	LEU	150	0.148	15.495	12.608	1.00	0.00
ATOM	2297	CA	LEU	150	0.963	15.383	13.811	1.00	0.00
ATOM	2302	C	LEU	150	2.349	14.838	13.501	1.00	0.00
ATOM	2303	O	LEU	150	3.355	15.415	13.916	1.00	0.00
ATOM	2298	CB	LEU	150	0.282	14.471	14.836	1.00	0.00
ATOM	2299	CG	LEU	150	-0.185	15.166	16.115	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.683	15.004	16.295	1.00	0.00
ATOM	2301	CD2	LEU	150	0.557	14.611	17.321	1.00	0.00
ATOM	2304	H	LEU	150	-0.711	15.021	12.574	1.00	0.00
ATOM	2305	HA	LEU	150	1.063	16.370	14.235	1.00	0.00
ATOM	2306	1HB	LEU	150	0.979	13.696	15.113	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.571	14.008	14.368	1.00	0.00
ATOM	2308	HG	LEU	150	0.032	16.222	16.045	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.934	13.954	16.302	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.199	15.491	15.480	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.985	15.452	17.230	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.779	15.414	18.009	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.479	14.151	16.995	1.00	0.00
ATOM	2314	3HD2	LEU	150	-0.058	13.873	17.813	1.00	0.00
ATOM	2315	N	TYR	151	2.405	13.717	12.795	1.00	0.00
ATOM	2316	CA	TYR	151	3.694	13.108	12.471	1.00	0.00
ATOM	2325	C	TYR	151	3.826	12.767	10.994	1.00	0.00
ATOM	2326	O	TYR	151	4.527	11.822	10.629	1.00	0.00
ATOM	2317	CB	TYR	151	3.906	11.855	13.311	1.00	0.00
ATOM	2318	CG	TYR	151	4.876	12.053	14.452	1.00	0.00
ATOM	2319	CD1	TYR	151	4.535	12.833	15.548	1.00	0.00
ATOM	2320	CD2	TYR	151	6.128	11.454	14.436	1.00	0.00
ATOM	2321	CE1	TYR	151	5.413	13.012	16.599	1.00	0.00
ATOM	2322	CE2	TYR	151	7.012	11.623	15.484	1.00	0.00
ATOM	2323	CZ	TYR	151	6.651	12.403	16.562	1.00	0.00
ATOM	2324	OH	TYR	151	7.526	12.566	17.610	1.00	0.00
ATOM	2327	H	TYR	151	1.566	13.284	12.503	1.00	0.00



ATOM	2328	HA	TYR	151	4.462	13.823	12.725	1.00	0.00
ATOM	2329	1HB	TYR	151	4.290	11.068	12.679	1.00	0.00
ATOM	2330	2HB	TYR	151	2.960	11.548	13.728	1.00	0.00
ATOM	2331	HD1	TYR	151	6.409	10.844	13.589	1.00	0.00
ATOM	2332	HD2	TYR	151	3.565	13.308	15.573	1.00	0.00
ATOM	2333	HE1	TYR	151	7.981	11.149	15.455	1.00	0.00
ATOM	2334	HE2	TYR	151	5.125	13.621	17.443	1.00	0.00
ATOM	2335	HH	TYR	151	7.626	11.719	18.072	1.00	0.00
ATOM	2336	N	GLY	152	3.170	13.536	10.149	1.00	0.00
ATOM	2337	CA	GLY	152	3.254	13.291	8.724	1.00	0.00
ATOM	2338	C	GLY	152	4.215	14.241	8.043	1.00	0.00
ATOM	2339	O	GLY	152	5.328	14.455	8.522	1.00	0.00
ATOM	2340	H	GLY	152	2.634	14.282	10.491	1.00	0.00
ATOM	2341	1HA	GLY	152	2.273	13.414	8.288	1.00	0.00
ATOM	2342	2HA	GLY	152	3.587	12.276	8.561	1.00	0.00
ATOM	2343	N	ASP	153	3.784	14.816	6.931	1.00	0.00
ATOM	2344	CA	ASP	153	4.615	15.756	6.186	1.00	0.00
ATOM	2349	C	ASP	153	4.801	17.047	6.980	1.00	0.00
ATOM	2350	O	ASP	153	5.912	17.562	7.104	1.00	0.00
ATOM	2345	CB	ASP	153	3.989	16.065	4.825	1.00	0.00
ATOM	2346	CG	ASP	153	4.930	16.815	3.900	1.00	0.00
ATOM	2347	OD1	ASP	153	6.161	16.621	4.002	1.00	0.00
ATOM	2348	OD2	ASP	153	4.439	17.593	3.054	1.00	0.00
ATOM	2351	H	ASP	153	2.884	14.606	6.603	1.00	0.00
ATOM	2352	HA	ASP	153	5.580	15.298	6.034	1.00	0.00
ATOM	2353	1HB	ASP	153	3.104	16.666	4.973	1.00	0.00
ATOM	2354	2HB	ASP	153	3.711	15.137	4.347	1.00	0.00
ATOM	2355	N	GLY	154	3.711	17.554	7.535	1.00	0.00
ATOM	2356	CA	GLY	154	3.777	18.769	8.322	1.00	0.00
ATOM	2357	C	GLY	154	3.948	18.483	9.799	1.00	0.00
ATOM	2358	O	GLY	154	3.236	19.036	10.632	1.00	0.00
ATOM	2359	H	GLY	154	2.856	17.095	7.419	1.00	0.00
ATOM	2360	1HA	GLY	154	2.867	19.332	8.178	1.00	0.00
ATOM	2361	2HA	GLY	154	4.614	19.363	7.981	1.00	0.00
ATOM	2362	N	ALA	155	4.901	17.619	10.120	1.00	0.00
ATOM	2363	CA	ALA	155	5.178	17.249	11.497	1.00	0.00
ATOM	2365	C	ALA	155	6.047	18.300	12.173	1.00	0.00
ATOM	2366	O	ALA	155	7.239	18.087	12.407	1.00	0.00
ATOM	2364	CB	ALA	155	5.852	15.887	11.554	1.00	0.00
ATOM	2367	H	ALA	155	5.435	17.222	9.411	1.00	0.00
ATOM	2368	HA	ALA	155	4.236	17.182	12.022	1.00	0.00
ATOM	2369	1HB	ALA	155	6.191	15.694	12.562	1.00	0.00
ATOM	2370	2HB	ALA	155	6.697	15.875	10.882	1.00	0.00
ATOM	2371	3HB	ALA	155	5.146	15.123	11.259	1.00	0.00
ATOM	2372	N	LEU	156	5.442	19.437	12.476	1.00	0.00
ATOM	2373	CA	LEU	156	6.137	20.528	13.122	1.00	0.00
ATOM	2378	C	LEU	156	6.562	20.133	14.529	1.00	0.00
ATOM	2379	O	LEU	156	6.030	19.183	15.109	1.00	0.00
ATOM	2374	CB	LEU	156	5.254	21.776	13.163	1.00	0.00
ATOM	2375	CG	LEU	156	3.819	21.565	13.655	1.00	0.00
ATOM	2376	CD1	LEU	156	3.402	22.702	14.571	1.00	0.00
ATOM	2377	CD2	LEU	156	2.856	21.459	12.483	1.00	0.00
ATOM	2380	H	LEU	156	4.498	19.543	12.257	1.00	0.00
ATOM	2381	HA	LEU	156	7.021	20.745	12.541	1.00	0.00
ATOM	2382	1HB	LEU	156	5.214	22.193	12.171	1.00	0.00
ATOM	2383	2HB	LEU	156	5.725	22.488	13.812	1.00	0.00
ATOM	2384	HG	LEU	156	3.767	20.644	14.219	1.00	0.00
ATOM	2385	1HD1	LEU	156	4.023	22.699	15.454	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.369	22.576	14.856	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.520	23.642	14.052	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.978	20.499	12.002	1.00	0.00
ATOM	2389	2HD2	LEU	156	3.066	22.246	11.774	1.00	0.00
ATOM	2390	3HD2	LEU	156	1.842	21.557	12.840	1.00	0.00
ATOM	2391	N	GLU	157	7.533	20.855	15.063	1.00	0.00
ATOM	2392	CA	GLU	157	8.061	20.579	16.393	1.00	0.00
ATOM	2398	C	GLU	157	6.973	20.615	17.468	1.00	0.00
ATOM	2399	O	GLU	157	7.043	19.879	18.453	1.00	0.00
ATOM	2393	CB	GLU	157	9.187	21.565	16.727	1.00	0.00
ATOM	2394	CG	GLU	157	8.721	22.871	17.354	1.00	0.00
ATOM	2395	CD	GLU	157	9.290	23.076	18.742	1.00	0.00
ATOM	2396	OE1	GLU	157	10.409	23.616	18.851	1.00	0.00
ATOM	2397	OE2	GLU	157	8.624	22.689	19.726	1.00	0.00
ATOM	2400	H	GLU	157	7.920	21.590	14.541	1.00	0.00



ATOM	2401	HA	GLU	157	8.479	19.583	16.370	1.00	0.00
ATOM	2402	1HB	GLU	157	9.719	21.800	15.817	1.00	0.00
ATOM	2403	2HB	GLU	157	9.865	21.090	17.413	1.00	0.00
ATOM	2404	1HG	GLU	157	7.643	22.862	17.420	1.00	0.00
ATOM	2405	2HG	GLU	157	9.036	23.692	16.726	1.00	0.00
ATOM	2406	N	GLU	158	5.968	21.461	17.273	1.00	0.00
ATOM	2407	CA	GLU	158	4.879	21.578	18.237	1.00	0.00
ATOM	2413	C	GLU	158	4.016	20.322	18.228	1.00	0.00
ATOM	2414	O	GLU	158	3.590	19.842	19.275	1.00	0.00
ATOM	2408	CB	GLU	158	4.025	22.815	17.950	1.00	0.00
ATOM	2409	CG	GLU	158	4.055	23.853	19.065	1.00	0.00
ATOM	2410	CD	GLU	158	2.945	23.658	20.083	1.00	0.00
ATOM	2411	OE1	GLU	158	2.036	22.840	19.832	1.00	0.00
ATOM	2412	OE2	GLU	158	2.975	24.324	21.139	1.00	0.00
ATOM	2415	H	GLU	158	5.959	22.014	16.465	1.00	0.00
ATOM	2416	HA	GLU	158	5.323	21.681	19.217	1.00	0.00
ATOM	2417	1HB	GLU	158	3.001	22.505	17.805	1.00	0.00
ATOM	2418	2HB	GLU	158	4.381	23.282	17.044	1.00	0.00
ATOM	2419	1HG	GLU	158	3.953	24.835	18.627	1.00	0.00
ATOM	2420	2HG	GLU	158	5.004	23.785	19.575	1.00	0.00
ATOM	2421	N	ALA	159	3.781	19.779	17.041	1.00	0.00
ATOM	2422	CA	ALA	159	2.983	18.569	16.903	1.00	0.00
ATOM	2424	C	ALA	159	3.720	17.372	17.494	1.00	0.00
ATOM	2425	O	ALA	159	3.112	16.482	18.091	1.00	0.00
ATOM	2423	CB	ALA	159	2.650	18.320	15.441	1.00	0.00
ATOM	2426	H	ALA	159	4.163	20.194	16.242	1.00	0.00
ATOM	2427	HA	ALA	159	2.058	18.715	17.441	1.00	0.00
ATOM	2428	1HB	ALA	159	2.941	19.178	14.853	1.00	0.00
ATOM	2429	2HB	ALA	159	1.588	18.155	15.337	1.00	0.00
ATOM	2430	3HB	ALA	159	3.186	17.448	15.093	1.00	0.00
ATOM	2431	N	ARG	160	5.035	17.367	17.325	1.00	0.00
ATOM	2432	CA	ARG	160	5.873	16.290	17.837	1.00	0.00
ATOM	2440	C	ARG	160	5.895	16.292	19.361	1.00	0.00
ATOM	2441	O	ARG	160	5.652	15.262	19.991	1.00	0.00
ATOM	2433	CB	ARG	160	7.296	16.420	17.295	1.00	0.00
ATOM	2434	CG	ARG	160	7.394	16.229	15.789	1.00	0.00
ATOM	2435	CD	ARG	160	8.842	16.214	15.330	1.00	0.00
ATOM	2436	NE	ARG	160	8.989	16.641	13.944	1.00	0.00
ATOM	2437	CZ	ARG	160	10.077	16.411	13.214	1.00	0.00
ATOM	2438	NH1	ARG	160	11.081	15.709	13.724	1.00	0.00
ATOM	2439	NH2	ARG	160	10.154	16.861	11.971	1.00	0.00
ATOM	2442	H	ARG	160	5.454	18.108	16.842	1.00	0.00
ATOM	2443	HA	ARG	160	5.453	15.356	17.496	1.00	0.00
ATOM	2444	1HB	ARG	160	7.919	15.679	17.773	1.00	0.00
ATOM	2445	2HB	ARG	160	7.670	17.403	17.539	1.00	0.00
ATOM	2446	1HG	ARG	160	6.876	17.042	15.297	1.00	0.00
ATOM	2447	2HG	ARG	160	6.931	15.291	15.522	1.00	0.00
ATOM	2448	1HD	ARG	160	9.228	15.211	15.429	1.00	0.00
ATOM	2449	2HD	ARG	160	9.413	16.881	15.959	1.00	0.00
ATOM	2450	HE	ARG	160	8.239	17.137	13.538	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.022	15.347	14.658	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.907	15.537	13.174	1.00	0.00
ATOM	2453	1HH2	ARG	160	9.393	17.376	11.571	1.00	0.00
ATOM	2454	2HH2	ARG	160	10.984	16.687	11.423	1.00	0.00
ATOM	2455	N	ARG	161	6.171	17.456	19.955	1.00	0.00
ATOM	2456	CA	ARG	161	6.207	17.570	21.411	1.00	0.00
ATOM	2464	C	ARG	161	4.822	17.306	21.992	1.00	0.00
ATOM	2465	O	ARG	161	4.687	16.836	23.122	1.00	0.00
ATOM	2457	CB	ARG	161	6.727	18.937	21.851	1.00	0.00
ATOM	2458	CG	ARG	161	5.857	20.092	21.408	1.00	0.00
ATOM	2459	CD	ARG	161	5.994	21.284	22.336	1.00	0.00
ATOM	2460	NE	ARG	161	6.739	22.378	21.720	1.00	0.00
ATOM	2461	CZ	ARG	161	6.600	23.652	22.065	1.00	0.00
ATOM	2462	NH1	ARG	161	5.757	23.996	23.031	1.00	0.00
ATOM	2463	NH2	ARG	161	7.315	24.579	21.443	1.00	0.00
ATOM	2466	H	ARG	161	6.347	18.250	19.404	1.00	0.00
ATOM	2467	HA	ARG	161	6.878	16.814	21.774	1.00	0.00
ATOM	2468	1HB	ARG	161	7.716	19.081	21.440	1.00	0.00
ATOM	2469	2HB	ARG	161	6.790	18.955	22.929	1.00	0.00
ATOM	2470	1HG	ARG	161	4.826	19.769	21.397	1.00	0.00
ATOM	2471	2HG	ARG	161	6.156	20.379	20.416	1.00	0.00
ATOM	2472	1HD	ARG	161	6.508	20.970	23.233	1.00	0.00
ATOM	2473	2HD	ARG	161	5.006	21.638	22.594	1.00	0.00



ATOM	2474	HE	ARG	161	7.380	22.148	21.001	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.220	23.290	23.507	1.00	0.00
ATOM	2476	2HH1	ARG	161	5.641	24.960	23.286	1.00	0.00
ATOM	2477	1HH2	ARG	161	7.958	24.312	20.715	1.00	0.00
ATOM	2478	2HH2	ARG	161	7.224	25.550	21.701	1.00	0.00
ATOM	2479	N	LEU	162	3.798	17.586	21.191	1.00	0.00
ATOM	2480	CA	LEU	162	2.418	17.360	21.588	1.00	0.00
ATOM	2485	C	LEU	162	2.192	15.874	21.811	1.00	0.00
ATOM	2486	O	LEU	162	1.633	15.465	22.823	1.00	0.00
ATOM	2481	CB	LEU	162	1.465	17.867	20.501	1.00	0.00
ATOM	2482	CG	LEU	162	0.210	18.585	20.997	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.393	19.418	19.879	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.811	17.588	21.523	1.00	0.00
ATOM	2487	H	LEU	162	3.981	17.941	20.294	1.00	0.00
ATOM	2488	HA	LEU	162	2.235	17.892	22.510	1.00	0.00
ATOM	2489	1HB	LEU	162	1.155	17.022	19.905	1.00	0.00
ATOM	2490	2HB	LEU	162	2.013	18.549	19.867	1.00	0.00
ATOM	2491	HG	LEU	162	0.478	19.250	21.804	1.00	0.00
ATOM	2492	1HD1	LEU	162	-0.531	20.433	20.220	1.00	0.00
ATOM	2493	2HD1	LEU	162	-1.348	19.000	19.594	1.00	0.00
ATOM	2494	3HD1	LEU	162	0.270	19.410	19.027	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.334	16.629	21.673	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.614	17.482	20.809	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.208	17.942	22.463	1.00	0.00
ATOM	2498	N	ARG	163	2.647	15.068	20.859	1.00	0.00
ATOM	2499	CA	ARG	163	2.505	13.623	20.953	1.00	0.00
ATOM	2507	C	ARG	163	3.283	13.088	22.149	1.00	0.00
ATOM	2508	O	ARG	163	2.816	12.187	22.848	1.00	0.00
ATOM	2500	CB	ARG	163	2.992	12.950	19.670	1.00	0.00
ATOM	2501	CG	ARG	163	2.334	11.606	19.398	1.00	0.00
ATOM	2502	CD	ARG	163	2.517	11.183	17.949	1.00	0.00
ATOM	2503	NE	ARG	163	3.743	10.403	17.757	1.00	0.00
ATOM	2504	CZ	ARG	163	3.964	9.594	16.723	1.00	0.00
ATOM	2505	NH1	ARG	163	3.020	9.399	15.807	1.00	0.00
ATOM	2506	NH2	ARG	163	5.137	8.987	16.605	1.00	0.00
ATOM	2509	H	ARG	163	3.097	15.458	20.074	1.00	0.00
ATOM	2510	HA	ARG	163	1.458	13.403	21.094	1.00	0.00
ATOM	2511	1HB	ARG	163	4.059	12.797	19.739	1.00	0.00
ATOM	2512	2HB	ARG	163	2.786	13.603	18.835	1.00	0.00
ATOM	2513	1HG	ARG	163	1.278	11.682	19.612	1.00	0.00
ATOM	2514	2HG	ARG	163	2.781	10.861	20.040	1.00	0.00
ATOM	2515	1HD	ARG	163	2.570	12.071	17.336	1.00	0.00
ATOM	2516	2HD	ARG	163	1.667	10.590	17.646	1.00	0.00
ATOM	2517	HE	ARG	163	4.458	10.513	18.429	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.136	9.859	15.890	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.195	8.799	15.024	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.861	9.147	17.301	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.322	8.379	15.833	1.00	0.00
ATOM	2522	N	GLU	164	4.462	13.653	22.379	1.00	0.00
ATOM	2523	CA	GLU	164	5.309	13.242	23.489	1.00	0.00
ATOM	2529	C	GLU	164	4.647	13.562	24.826	1.00	0.00
ATOM	2530	O	GLU	164	4.552	12.703	25.707	1.00	0.00
ATOM	2524	CB	GLU	164	6.672	13.926	23.397	1.00	0.00
ATOM	2525	CG	GLU	164	7.826	12.957	23.188	1.00	0.00
ATOM	2526	CD	GLU	164	8.852	13.023	24.299	1.00	0.00
ATOM	2527	OE1	GLU	164	9.150	14.132	24.776	1.00	0.00
ATOM	2528	OE2	GLU	164	9.362	11.956	24.697	1.00	0.00
ATOM	2531	H	GLU	164	4.771	14.370	21.784	1.00	0.00
ATOM	2532	HA	GLU	164	5.448	12.174	23.418	1.00	0.00
ATOM	2533	1HB	GLU	164	6.850	14.474	24.310	1.00	0.00
ATOM	2534	2HB	GLU	164	6.659	14.619	22.568	1.00	0.00
ATOM	2535	1HG	GLU	164	8.313	13.193	22.254	1.00	0.00
ATOM	2536	2HG	GLU	164	7.434	11.950	23.146	1.00	0.00
ATOM	2537	N	GLY	165	4.170	14.795	24.965	1.00	0.00
ATOM	2538	CA	GLY	165	3.510	15.194	26.193	1.00	0.00
ATOM	2539	C	GLY	165	2.208	14.452	26.391	1.00	0.00
ATOM	2540	O	GLY	165	1.759	14.253	27.522	1.00	0.00
ATOM	2541	H	GLY	165	4.256	15.437	24.222	1.00	0.00
ATOM	2542	1HA	GLY	165	3.308	16.254	26.155	1.00	0.00
ATOM	2543	2HA	GLY	165	4.166	14.989	27.027	1.00	0.00
ATOM	2544	N	ASN	166	1.609	14.045	25.280	1.00	0.00
ATOM	2545	CA	ASN	166	0.350	13.321	25.296	1.00	0.00
ATOM	2550	C	ASN	166	0.522	11.915	25.847	1.00	0.00



ATOM	2551	O	ASN	166	-0.153	11.534	26.802	1.00	0.00
ATOM	2546	CB	ASN	166	-0.238	13.237	23.887	1.00	0.00
ATOM	2547	CG	ASN	166	-1.500	14.063	23.738	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.138	14.431	24.721	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.879	14.348	22.505	1.00	0.00
ATOM	2552	H	ASN	166	2.031	14.246	24.417	1.00	0.00
ATOM	2553	HA	ASN	166	-0.336	13.863	25.929	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.477	12.204	23.664	1.00	0.00
ATOM	2555	2HB	ASN	166	0.491	13.591	23.174	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.336	14.015	21.765	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.689	14.880	22.385	1.00	0.00
ATOM	2558	N	TRP	167	1.413	11.132	25.233	1.00	0.00
ATOM	2559	CA	TRP	167	1.633	9.758	25.667	1.00	0.00
ATOM	2570	C	TRP	167	2.108	9.700	27.110	1.00	0.00
ATOM	2571	O	TRP	167	1.854	8.716	27.801	1.00	0.00
ATOM	2560	CB	TRP	167	2.586	8.992	24.721	1.00	0.00
ATOM	2561	CG	TRP	167	4.051	9.337	24.823	1.00	0.00
ATOM	2562	CD1	TRP	167	4.782	10.042	23.913	1.00	0.00
ATOM	2563	CD2	TRP	167	4.972	8.957	25.860	1.00	0.00
ATOM	2564	NE1	TRP	167	6.087	10.144	24.328	1.00	0.00
ATOM	2565	CE2	TRP	167	6.228	9.490	25.520	1.00	0.00
ATOM	2566	CE3	TRP	167	4.851	8.232	27.048	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.354	9.316	26.321	1.00	0.00
ATOM	2568	CZ3	TRP	167	5.969	8.060	27.843	1.00	0.00
ATOM	2569	CH2	TRP	167	7.206	8.600	27.476	1.00	0.00
ATOM	2572	H	TRP	167	1.917	11.484	24.469	1.00	0.00
ATOM	2573	HA	TRP	167	0.665	9.269	25.629	1.00	0.00
ATOM	2574	1HB	TRP	167	2.274	9.176	23.702	1.00	0.00
ATOM	2575	2HB	TRP	167	2.492	7.936	24.923	1.00	0.00
ATOM	2576	HD1	TRP	167	4.378	10.462	23.004	1.00	0.00
ATOM	2577	HE1	TRP	167	6.802	10.615	23.847	1.00	0.00
ATOM	2578	HE3	TRP	167	3.898	7.808	27.347	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.316	9.728	26.052	1.00	0.00
ATOM	2580	HZ3	TRP	167	5.893	7.499	28.763	1.00	0.00
ATOM	2581	HH2	TRP	167	8.053	8.441	28.127	1.00	0.00
ATOM	2582	N	ALA	168	2.780	10.751	27.565	1.00	0.00
ATOM	2583	CA	ALA	168	3.269	10.802	28.934	1.00	0.00
ATOM	2585	C	ALA	168	2.128	10.569	29.924	1.00	0.00
ATOM	2586	O	ALA	168	2.256	9.786	30.864	1.00	0.00
ATOM	2584	CB	ALA	168	3.947	12.137	29.205	1.00	0.00
ATOM	2587	H	ALA	168	2.947	11.513	26.965	1.00	0.00
ATOM	2588	HA	ALA	168	4.003	10.019	29.056	1.00	0.00
ATOM	2589	1HB	ALA	168	4.912	11.965	29.659	1.00	0.00
ATOM	2590	2HB	ALA	168	3.334	12.724	29.873	1.00	0.00
ATOM	2591	3HB	ALA	168	4.077	12.670	28.274	1.00	0.00
ATOM	2592	N	SER	169	1.016	11.251	29.709	1.00	0.00
ATOM	2593	CA	SER	169	-0.138	11.117	30.583	1.00	0.00
ATOM	2596	C	SER	169	-1.074	9.977	30.164	1.00	0.00
ATOM	2597	O	SER	169	-1.851	9.486	30.984	1.00	0.00
ATOM	2594	CB	SER	169	-0.910	12.434	30.614	1.00	0.00
ATOM	2595	OG	SER	169	-0.340	13.371	29.718	1.00	0.00
ATOM	2598	H	SER	169	0.964	11.867	28.943	1.00	0.00
ATOM	2599	HA	SER	169	0.230	10.912	31.577	1.00	0.00
ATOM	2600	1HB	SER	169	-0.880	12.844	31.613	1.00	0.00
ATOM	2601	2HB	SER	169	-1.936	12.256	30.328	1.00	0.00
ATOM	2602	HG	SER	169	0.449	13.758	30.119	1.00	0.00
ATOM	2603	N	VAL	170	-1.053	9.586	28.887	1.00	0.00
ATOM	2604	CA	VAL	170	-1.976	8.544	28.421	1.00	0.00
ATOM	2608	C	VAL	170	-1.388	7.133	28.386	1.00	0.00
ATOM	2609	O	VAL	170	-2.072	6.174	28.733	1.00	0.00
ATOM	2605	CB	VAL	170	-2.575	8.865	27.029	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.448	10.111	27.088	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.501	9.018	25.968	1.00	0.00
ATOM	2610	H	VAL	170	-0.449	10.031	28.247	1.00	0.00
ATOM	2611	HA	VAL	170	-2.798	8.532	29.122	1.00	0.00
ATOM	2612	HB	VAL	170	-3.196	8.035	26.743	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.280	10.625	28.022	1.00	0.00
ATOM	2614	2HG1	VAL	170	-4.488	9.826	27.016	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.196	10.766	26.266	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.675	9.927	25.406	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.532	8.171	25.299	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.532	9.069	26.441	1.00	0.00
ATOM	2619	N	ARG	171	-0.154	6.975	27.951	1.00	0.00



ATOM	2620	CA	ARG	171	0.422	5.641	27.869	1.00	0.00
ATOM	2628	C	ARG	171	0.802	5.122	29.251	1.00	0.00
ATOM	2629	O	ARG	171	0.806	3.914	29.486	1.00	0.00
ATOM	2621	CB	ARG	171	1.610	5.618	26.900	1.00	0.00
ATOM	2622	CG	ARG	171	2.972	5.518	27.558	1.00	0.00
ATOM	2623	CD	ARG	171	4.007	5.014	26.569	1.00	0.00
ATOM	2624	NE	ARG	171	4.850	3.964	27.144	1.00	0.00
ATOM	2625	CZ	ARG	171	6.120	3.752	26.807	1.00	0.00
ATOM	2626	NH1	ARG	171	6.711	4.515	25.890	1.00	0.00
ATOM	2627	NH2	ARG	171	6.798	2.773	27.391	1.00	0.00
ATOM	2630	H	ARG	171	0.371	7.755	27.663	1.00	0.00
ATOM	2631	HA	ARG	171	-0.348	4.993	27.475	1.00	0.00
ATOM	2632	1HB	ARG	171	1.588	6.522	26.309	1.00	0.00
ATOM	2633	2HB	ARG	171	1.497	4.772	26.239	1.00	0.00
ATOM	2634	1HG	ARG	171	2.913	4.832	28.389	1.00	0.00
ATOM	2635	2HG	ARG	171	3.266	6.496	27.909	1.00	0.00
ATOM	2636	1HD	ARG	171	4.630	5.843	26.267	1.00	0.00
ATOM	2637	2HD	ARG	171	3.492	4.621	25.702	1.00	0.00
ATOM	2638	HE	ARG	171	4.441	3.382	27.831	1.00	0.00
ATOM	2639	1HH1	ARG	171	6.202	5.256	25.451	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.668	4.353	25.642	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.349	2.196	28.086	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.754	2.605	27.154	1.00	0.00
ATOM	2643	N	THR	172	1.101	6.033	30.163	1.00	0.00
ATOM	2644	CA	THR	172	1.468	5.654	31.517	1.00	0.00
ATOM	2648	C	THR	172	0.233	5.366	32.370	1.00	0.00
ATOM	2649	O	THR	172	0.281	4.540	33.278	1.00	0.00
ATOM	2645	CB	THR	172	2.323	6.744	32.179	1.00	0.00
ATOM	2646	OG1	THR	172	3.167	7.350	31.191	1.00	0.00
ATOM	2647	CG2	THR	172	3.178	6.170	33.299	1.00	0.00
ATOM	2650	H	THR	172	1.075	6.982	29.921	1.00	0.00
ATOM	2651	HA	THR	172	2.059	4.756	31.459	1.00	0.00
ATOM	2652	HB	THR	172	1.666	7.491	32.591	1.00	0.00
ATOM	2653	HG1	THR	172	2.981	8.300	31.148	1.00	0.00
ATOM	2654	1HG2	THR	172	3.843	6.936	33.672	1.00	0.00
ATOM	2655	2HG2	THR	172	3.759	5.343	32.919	1.00	0.00
ATOM	2656	3HG2	THR	172	2.540	5.826	34.098	1.00	0.00
ATOM	2657	N	VAL	173	-0.882	6.032	32.069	1.00	0.00
ATOM	2658	CA	VAL	173	-2.112	5.809	32.825	1.00	0.00
ATOM	2662	C	VAL	173	-2.701	4.438	32.492	1.00	0.00
ATOM	2663	O	VAL	173	-3.353	3.809	33.321	1.00	0.00
ATOM	2659	CB	VAL	173	-3.150	6.937	32.588	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.905	6.757	31.281	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.118	7.028	33.758	1.00	0.00
ATOM	2664	H	VAL	173	-0.880	6.674	31.327	1.00	0.00
ATOM	2665	HA	VAL	173	-1.846	5.816	33.874	1.00	0.00
ATOM	2666	HB	VAL	173	-2.613	7.871	32.529	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.736	7.614	30.647	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.960	6.663	31.486	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.554	5.865	30.783	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.346	8.065	33.957	1.00	0.00
ATOM	2671	2HG2	VAL	173	-3.667	6.584	34.634	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.029	6.500	33.514	1.00	0.00
ATOM	2673	N	LEU	174	-2.433	3.965	31.282	1.00	0.00
ATOM	2674	CA	LEU	174	-2.906	2.654	30.853	1.00	0.00
ATOM	2679	C	LEU	174	-1.717	1.729	30.630	1.00	0.00
ATOM	2680	O	LEU	174	-1.726	0.882	29.735	1.00	0.00
ATOM	2675	CB	LEU	174	-3.742	2.754	29.572	1.00	0.00
ATOM	2676	CG	LEU	174	-4.500	4.065	29.379	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.545	4.442	27.908	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.908	3.962	29.948	1.00	0.00
ATOM	2681	H	LEU	174	-1.887	4.503	30.672	1.00	0.00
ATOM	2682	HA	LEU	174	-3.518	2.249	31.646	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.461	1.947	29.576	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.081	2.619	28.728	1.00	0.00
ATOM	2685	HG	LEU	174	-3.979	4.850	29.911	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.662	4.064	27.413	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.580	5.517	27.812	1.00	0.00
ATOM	2688	3HD1	LEU	174	-5.424	4.011	27.453	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.600	4.459	29.286	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.938	4.430	30.920	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.183	2.922	30.040	1.00	0.00
ATOM	2692	N	THR	175	-0.680	1.909	31.436	1.00	0.00



ATOM	2693	CA	THR	175	0.526	1.100	31.318	1.00	0.00
ATOM	2697	C	THR	175	0.358	-0.252	32.018	1.00	0.00
ATOM	2698	O	THR	175	1.237	-1.110	31.943	1.00	0.00
ATOM	2694	CB	THR	175	1.765	1.844	31.878	1.00	0.00
ATOM	2695	OG1	THR	175	2.957	1.363	31.242	1.00	0.00
ATOM	2696	CG2	THR	175	1.886	1.679	33.388	1.00	0.00
ATOM	2699	H	THR	175	-0.720	2.615	32.121	1.00	0.00
ATOM	2700	HA	THR	175	0.693	0.921	30.264	1.00	0.00
ATOM	2701	HB	THR	175	1.657	2.898	31.657	1.00	0.00
ATOM	2702	HG1	THR	175	3.091	0.437	31.479	1.00	0.00
ATOM	2703	LHG2	THR	175	2.929	1.609	33.661	1.00	0.00
ATOM	2704	2HG2	THR	175	1.373	0.781	33.695	1.00	0.00
ATOM	2705	3HG2	THR	175	1.442	2.533	33.881	1.00	0.00
ATOM	2706	N	GLY	176	-0.776	-0.438	32.686	1.00	0.00
ATOM	2707	CA	GLY	176	-1.034	-1.687	33.384	1.00	0.00
ATOM	2708	C	GLY	176	-1.720	-2.718	32.504	1.00	0.00
ATOM	2709	O	GLY	176	-2.102	-3.786	32.978	1.00	0.00
ATOM	2710	H	GLY	176	-1.443	0.278	32.709	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.662	-1.484	34.239	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.095	-2.093	33.730	1.00	0.00
ATOM	2713	N	ALA	177	-1.869	-2.397	31.223	1.00	0.00
ATOM	2714	CA	ALA	177	-2.516	-3.293	30.260	1.00	0.00
ATOM	2716	C	ALA	177	-1.570	-4.397	29.778	1.00	0.00
ATOM	2717	O	ALA	177	-1.698	-4.890	28.662	1.00	0.00
ATOM	2715	CB	ALA	177	-3.028	-2.492	29.073	1.00	0.00
ATOM	2718	H	ALA	177	-1.538	-1.530	30.913	1.00	0.00
ATOM	2719	HA	ALA	177	-3.371	-3.753	30.741	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.905	-2.971	28.667	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.260	-2.441	28.315	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.281	-1.492	29.396	1.00	0.00
ATOM	2723	N	VAL	178	-0.626	-4.789	30.625	1.00	0.00
ATOM	2724	CA	VAL	178	0.323	-5.841	30.278	1.00	0.00
ATOM	2728	C	VAL	178	-0.244	-7.217	30.625	1.00	0.00
ATOM	2729	O	VAL	178	0.408	-8.024	31.291	1.00	0.00
ATOM	2725	CB	VAL	178	1.682	-5.657	30.990	1.00	0.00
ATOM	2726	CG1	VAL	178	2.809	-6.182	30.117	1.00	0.00
ATOM	2727	CG2	VAL	178	1.923	-4.197	31.349	1.00	0.00
ATOM	2730	H	VAL	178	-0.575	-4.370	31.509	1.00	0.00
ATOM	2731	HA	VAL	178	0.491	-5.795	29.212	1.00	0.00
ATOM	2732	HB	VAL	178	1.666	-6.232	31.903	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.900	-5.564	29.236	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.594	-7.199	29.823	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.736	-6.155	30.671	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.850	-3.867	30.904	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.982	-4.096	32.422	1.00	0.00
ATOM	2738	3HG2	VAL	178	1.109	-3.595	30.973	1.00	0.00
ATOM	2739	N	ALA	179	-1.464	-7.481	30.177	1.00	0.00
ATOM	2740	CA	ALA	179	-2.116	-8.757	30.449	1.00	0.00
ATOM	2742	C	ALA	179	-1.673	-9.822	29.452	1.00	0.00
ATOM	2743	O	ALA	179	-2.079	-10.981	29.542	1.00	0.00
ATOM	2741	CB	ALA	179	-3.629	-8.597	30.423	1.00	0.00
ATOM	2744	H	ALA	179	-1.939	-6.799	29.654	1.00	0.00
ATOM	2745	HA	ALA	179	-1.829	-9.068	31.443	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.060	-9.365	29.798	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.883	-7.625	30.026	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.018	-8.690	31.426	1.00	0.00
ATOM	2749	N	LEU	180	-0.828	-9.427	28.507	1.00	0.00
ATOM	2750	CA	LEU	180	-0.322	-10.348	27.499	1.00	0.00
ATOM	2755	C	LEU	180	0.993	-10.964	27.963	1.00	0.00
ATOM	2756	O	LEU	180	1.534	-11.867	27.321	1.00	0.00
ATOM	2751	CB	LEU	180	-0.115	-9.626	26.165	1.00	0.00
ATOM	2752	CG	LEU	180	-1.237	-8.670	25.756	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.764	-7.743	24.646	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.469	-9.446	25.314	1.00	0.00
ATOM	2757	H	LEU	180	-0.533	-8.492	28.490	1.00	0.00
ATOM	2758	HA	LEU	180	-1.050	-11.135	27.367	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.008	-10.371	25.390	1.00	0.00
ATOM	2760	2HB	LEU	180	0.805	-9.062	26.225	1.00	0.00
ATOM	2761	HG	LEU	180	-1.509	-8.062	26.605	1.00	0.00
ATOM	2762	1HD1	LEU	180	-1.505	-6.976	24.481	1.00	0.00
ATOM	2763	2HD1	LEU	180	-0.624	-8.312	23.739	1.00	0.00
ATOM	2764	3HD1	LEU	180	0.170	-7.286	24.933	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.241	-10.003	24.417	1.00	0.00



ATOM	2766	2HD2	LEU	180	-3.276	-8.756	25.115	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.764	-10.129	26.096	1.00	0.00
ATOM	2768	N	GLY	181	1.501	-10.459	29.080	1.00	0.00
ATOM	2769	CA	GLY	181	2.748	-10.949	29.623	1.00	0.00
ATOM	2770	C	GLY	181	2.591	-12.255	30.374	1.00	0.00
ATOM	2771	O	GLY	181	2.454	-12.264	31.600	1.00	0.00
ATOM	2772	H	GLY	181	1.023	-9.738	29.537	1.00	0.00
ATOM	2773	1HA	GLY	181	3.148	-10.205	30.296	1.00	0.00
ATOM	2774	2HA	GLY	181	3.446	-11.095	28.811	1.00	0.00
ATOM	2775	N	ALA	182	2.621	-13.353	29.637	1.00	0.00
ATOM	2776	CA	ALA	182	2.499	-14.681	30.215	1.00	0.00
ATOM	2778	C	ALA	182	3.835	-15.413	30.122	1.00	0.00
ATOM	2779	O	ALA	182	4.860	-14.807	29.805	1.00	0.00
ATOM	2777	CB	ALA	182	1.400	-15.466	29.511	1.00	0.00
ATOM	2780	H	ALA	182	2.742	-13.268	28.667	1.00	0.00
ATOM	2781	HA	ALA	182	2.228	-14.572	31.256	1.00	0.00
ATOM	2782	1HB	ALA	182	1.719	-15.713	28.510	1.00	0.00
ATOM	2783	2HB	ALA	182	0.503	-14.865	29.465	1.00	0.00
ATOM	2784	3HB	ALA	182	1.199	-16.374	30.060	1.00	0.00
ATOM	2785	N	LEU	183	3.821	-16.710	30.385	1.00	0.00
ATOM	2790	CA	LEU	183	5.029	-17.516	30.319	1.00	0.00
ATOM	2791	C	LEU	183	4.750	-18.791	29.544	1.00	0.00
ATOM	2792	O	LEU	183	3.595	-19.267	29.593	1.00	0.00
ATOM	2786	CB	LEU	183	5.521	-17.856	31.726	1.00	0.00
ATOM	2787	CG	LEU	183	6.190	-16.704	32.472	1.00	0.00
ATOM	2788	CD1	LEU	183	5.510	-16.468	33.812	1.00	0.00
ATOM	2789	CD2	LEU	183	7.672	-16.986	32.663	1.00	0.00
ATOM	2793	OXT	LEU	183	5.678	-19.315	28.897	1.00	0.00
ATOM	2794	H	LEU	183	2.975	-17.144	30.618	1.00	0.00
ATOM	2795	HA	LEU	183	5.787	-16.946	29.803	1.00	0.00
ATOM	2796	1HB	LEU	183	6.231	-18.666	31.650	1.00	0.00
ATOM	2797	2HB	LEU	183	4.676	-18.194	32.309	1.00	0.00
ATOM	2798	HG	LEU	183	6.094	-15.801	31.887	1.00	0.00
ATOM	2799	1HD1	LEU	183	4.452	-16.320	33.658	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.933	-15.591	34.281	1.00	0.00
ATOM	2801	3HD1	LEU	183	5.665	-17.326	34.450	1.00	0.00
ATOM	2802	1HD2	LEU	183	8.249	-16.169	32.254	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.931	-17.902	32.152	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.887	-17.087	33.716	1.00	0.00
ENDMDL									
MODEL									
ATOM	3	N	GLY	-4	-22.724	22.469	-10.917	1.00	0.00
ATOM	4	CA	GLY	-4	-21.380	22.647	-11.515	1.00	0.00
ATOM	1	C	GLY	-4	-20.727	21.318	-11.828	1.00	0.00
ATOM	2	O	GLY	-4	-21.141	20.291	-11.293	1.00	0.00
ATOM	5	1HA	GLY	-4	-21.474	23.216	-12.428	1.00	0.00
ATOM	6	2HA	GLY	-4	-20.756	23.193	-10.821	1.00	0.00
ATOM	7	1HT	GLY	-4	-23.306	23.316	-11.078	1.00	0.00
ATOM	8	2HT	GLY	-4	-22.643	22.303	-9.890	1.00	0.00
ATOM	9	3HT	GLY	-4	-23.200	21.649	-11.354	1.00	0.00
ATOM	10	N	PRO	-3	-19.710	21.299	-12.704	1.00	0.00
ATOM	11	CA	PRO	-3	-19.012	20.066	-13.089	1.00	0.00
ATOM	15	C	PRO	-3	-18.156	19.501	-11.958	1.00	0.00
ATOM	16	O	PRO	-3	-17.788	18.327	-11.972	1.00	0.00
ATOM	12	CB	PRO	-3	-18.121	20.497	-14.265	1.00	0.00
ATOM	13	CG	PRO	-3	-18.594	21.860	-14.651	1.00	0.00
ATOM	14	CD	PRO	-3	-19.164	22.469	-13.404	1.00	0.00
ATOM	17	HA	PRO	-3	-19.707	19.309	-13.421	1.00	0.00
ATOM	18	1HB	PRO	-3	-18.236	19.798	-15.080	1.00	0.00
ATOM	19	2HB	PRO	-3	-17.088	20.516	-13.948	1.00	0.00
ATOM	20	1HG	PRO	-3	-19.356	21.782	-15.412	1.00	0.00
ATOM	21	2HG	PRO	-3	-17.764	22.450	-15.010	1.00	0.00
ATOM	22	1HD	PRO	-3	-19.945	23.172	-13.648	1.00	0.00
ATOM	23	2HD	PRO	-3	-18.387	22.943	-12.822	1.00	0.00
ATOM	24	N	LEU	-2	-17.841	20.341	-10.981	1.00	0.00
ATOM	25	CA	LEU	-2	-17.028	19.921	-9.851	1.00	0.00
ATOM	30	C	LEU	-2	-17.883	19.715	-8.608	1.00	0.00
ATOM	31	O	LEU	-2	-18.379	20.677	-8.013	1.00	0.00
ATOM	26	CB	LEU	-2	-15.935	20.953	-9.568	1.00	0.00
ATOM	27	CG	LEU	-2	-14.935	21.171	-10.705	1.00	0.00
ATOM	28	CD1	LEU	-2	-14.484	22.622	-10.744	1.00	0.00
ATOM	29	CD2	LEU	-2	-13.739	20.248	-10.545	1.00	0.00
ATOM	32	H	LEU	-2	-18.163	21.265	-11.021	1.00	0.00



ATOM	33	HA	LEU	-2	-16.563	18.982	-10.110	1.00	0.00
ATOM	34	1HB	LEU	-2	-15.387	20.633	-8.695	1.00	0.00
ATOM	35	2HB	LEU	-2	-16.410	21.898	-9.347	1.00	0.00
ATOM	36	HG	LEU	-2	-15.414	20.943	-11.647	1.00	0.00
ATOM	37	1HD1	LEU	-2	-13.480	22.696	-10.351	1.00	0.00
ATOM	38	2HD1	LEU	-2	-15.151	23.223	-10.144	1.00	0.00
ATOM	39	3HD1	LEU	-2	-14.498	22.976	-11.764	1.00	0.00
ATOM	40	1HD2	LEU	-2	-13.023	20.702	-9.876	1.00	0.00
ATOM	41	2HD2	LEU	-2	-13.279	20.084	-11.508	1.00	0.00
ATOM	42	3HD2	LEU	-2	-14.066	19.303	-10.135	1.00	0.00
ATOM	43	N	GLY	-1	-18.041	18.456	-8.217	1.00	0.00
ATOM	44	CA	GLY	-1	-18.824	18.125	-7.041	1.00	0.00
ATOM	45	C	GLY	-1	-18.149	18.592	-5.769	1.00	0.00
ATOM	46	O	GLY	-1	-17.178	17.990	-5.314	1.00	0.00
ATOM	47	H	GLY	-1	-17.615	17.741	-8.730	1.00	0.00
ATOM	48	1HA	GLY	-1	-18.954	17.055	-6.996	1.00	0.00
ATOM	49	2HA	GLY	-1	-19.792	18.596	-7.119	1.00	0.00
ATOM	50	N	SER	0	-18.643	19.683	-5.213	1.00	0.00
ATOM	51	CA	SER	0	-18.072	20.257	-4.007	1.00	0.00
ATOM	54	C	SER	0	-18.597	19.573	-2.744	1.00	0.00
ATOM	55	O	SER	0	-17.913	19.533	-1.721	1.00	0.00
ATOM	52	CB	SER	0	-18.389	21.749	-3.976	1.00	0.00
ATOM	53	OG	SER	0	-18.882	22.176	-5.239	1.00	0.00
ATOM	56	H	SER	0	-19.402	20.131	-5.640	1.00	0.00
ATOM	57	HA	SER	0	-17.002	20.129	-4.053	1.00	0.00
ATOM	58	1HB	SER	0	-17.492	22.304	-3.745	1.00	0.00
ATOM	59	2HB	SER	0	-19.139	21.942	-3.224	1.00	0.00
ATOM	60	HG	SER	0	-18.253	21.925	-5.928	1.00	0.00
ATOM	61	N	MET	1	-19.812	19.045	-2.813	1.00	0.00
ATOM	62	CA	MET	1	-20.415	18.382	-1.660	1.00	0.00
ATOM	67	C	MET	1	-20.423	16.864	-1.824	1.00	0.00
ATOM	68	O	MET	1	-20.809	16.139	-0.910	1.00	0.00
ATOM	63	CB	MET	1	-21.843	18.895	-1.434	1.00	0.00
ATOM	64	CG	MET	1	-22.868	18.329	-2.406	1.00	0.00
ATOM	65	SD	MET	1	-23.714	19.616	-3.346	1.00	0.00
ATOM	66	CE	MET	1	-25.384	18.966	-3.375	1.00	0.00
ATOM	69	H	MET	1	-20.318	19.111	-3.648	1.00	0.00
ATOM	70	HA	MET	1	-19.818	18.628	-0.795	1.00	0.00
ATOM	71	1HB	MET	1	-21.844	19.971	-1.531	1.00	0.00
ATOM	72	2HB	MET	1	-22.151	18.635	-0.432	1.00	0.00
ATOM	73	1HG	MET	1	-23.603	17.768	-1.847	1.00	0.00
ATOM	74	2HG	MET	1	-22.363	17.671	-3.096	1.00	0.00
ATOM	75	1HE	MET	1	-25.492	18.215	-2.606	1.00	0.00
ATOM	76	2HE	MET	1	-25.579	18.522	-4.340	1.00	0.00
ATOM	77	3HE	MET	1	-26.084	19.767	-3.199	1.00	0.00
ATOM	78	N	ALA	2	-19.993	16.386	-2.983	1.00	0.00
ATOM	79	CA	ALA	2	-19.961	14.956	-3.242	1.00	0.00
ATOM	81	C	ALA	2	-18.635	14.544	-3.864	1.00	0.00
ATOM	82	O	ALA	2	-18.197	15.125	-4.855	1.00	0.00
ATOM	80	CB	ALA	2	-21.115	14.554	-4.148	1.00	0.00
ATOM	83	H	ALA	2	-19.688	17.005	-3.677	1.00	0.00
ATOM	84	HA	ALA	2	-20.080	14.443	-2.298	1.00	0.00
ATOM	85	1HB	ALA	2	-20.753	14.430	-5.158	1.00	0.00
ATOM	86	2HB	ALA	2	-21.872	15.325	-4.128	1.00	0.00
ATOM	87	3HB	ALA	2	-21.539	13.624	-3.799	1.00	0.00
ATOM	88	N	THR	3	-18.006	13.540	-3.272	1.00	0.00
ATOM	89	CA	THR	3	-16.734	13.040	-3.756	1.00	0.00
ATOM	93	C	THR	3	-16.930	11.773	-4.589	1.00	0.00
ATOM	94	O	THR	3	-17.461	10.774	-4.102	1.00	0.00
ATOM	90	CB	THR	3	-15.764	12.767	-2.579	1.00	0.00
ATOM	91	OG1	THR	3	-16.027	11.482	-1.997	1.00	0.00
ATOM	92	CG2	THR	3	-15.908	13.827	-1.497	1.00	0.00
ATOM	95	H	THR	3	-18.408	13.121	-2.486	1.00	0.00
ATOM	96	HA	THR	3	-16.297	13.805	-4.382	1.00	0.00
ATOM	97	HB	THR	3	-14.754	12.789	-2.952	1.00	0.00
ATOM	98	HG1	THR	3	-16.609	10.977	-2.578	1.00	0.00
ATOM	99	1HG2	THR	3	-15.690	13.388	-0.534	1.00	0.00
ATOM	100	2HG2	THR	3	-16.918	14.208	-1.498	1.00	0.00
ATOM	101	3HG2	THR	3	-15.216	14.633	-1.689	1.00	0.00
ATOM	102	N	PRO	4	-16.521	11.801	-5.868	1.00	0.00
ATOM	103	CA	PRO	4	-16.661	10.666	-6.783	1.00	0.00
ATOM	107	C	PRO	4	-15.538	9.638	-6.633	1.00	0.00
ATOM	108	O	PRO	4	-15.085	9.052	-7.615	1.00	0.00



ATOM	104	CB	PRO	4	-16.602	11.316	-8.177	1.00	0.00
ATOM	105	CG	PRO	4	-16.404	12.786	-7.951	1.00	0.00
ATOM	106	CD	PRO	4	-15.908	12.944	-6.543	1.00	0.00
ATOM	109	HA	PRO	4	-17.614	10.175	-6.656	1.00	0.00
ATOM	110	1HB	PRO	4	-17.525	11.122	-8.702	1.00	0.00
ATOM	111	2HB	PRO	4	-15.777	10.893	-8.732	1.00	0.00
ATOM	112	1HG	PRO	4	-17.345	13.302	-8.077	1.00	0.00
ATOM	113	2HG	PRO	4	-15.673	13.168	-8.649	1.00	0.00
ATOM	114	1HD	PRO	4	-16.253	13.875	-6.119	1.00	0.00
ATOM	115	2HD	PRO	4	-14.830	12.885	-6.509	1.00	0.00
ATOM	116	N	ALA	5	-15.099	9.418	-5.404	1.00	0.00
ATOM	117	CA	ALA	5	-14.040	8.460	-5.130	1.00	0.00
ATOM	119	C	ALA	5	-14.250	7.822	-3.767	1.00	0.00
ATOM	120	O	ALA	5	-14.813	8.444	-2.867	1.00	0.00
ATOM	118	CB	ALA	5	-12.679	9.138	-5.200	1.00	0.00
ATOM	121	H	ALA	5	-15.502	9.907	-4.656	1.00	0.00
ATOM	122	HA	ALA	5	-14.077	7.692	-5.889	1.00	0.00
ATOM	123	1HB	ALA	5	-12.758	10.041	-5.787	1.00	0.00
ATOM	124	2HB	ALA	5	-11.967	8.470	-5.660	1.00	0.00
ATOM	125	3HB	ALA	5	-12.349	9.385	-4.202	1.00	0.00
ATOM	126	N	SER	6	-13.799	6.589	-3.616	1.00	0.00
ATOM	127	CA	SER	6	-13.934	5.878	-2.357	1.00	0.00
ATOM	130	C	SER	6	-12.628	5.961	-1.572	1.00	0.00
ATOM	131	O	SER	6	-11.592	5.468	-2.020	1.00	0.00
ATOM	128	CB	SER	6	-14.323	4.423	-2.617	1.00	0.00
ATOM	129	OG	SER	6	-15.334	4.342	-3.611	1.00	0.00
ATOM	132	H	SER	6	-13.355	6.144	-4.371	1.00	0.00
ATOM	133	HA	SER	6	-14.714	6.358	-1.786	1.00	0.00
ATOM	134	1HB	SER	6	-14.695	3.981	-1.705	1.00	0.00
ATOM	135	2HB	SER	6	-13.456	3.875	-2.956	1.00	0.00
ATOM	136	HG	SER	6	-16.036	4.967	-3.402	1.00	0.00
ATOM	137	N	ALA	7	-12.682	6.601	-0.413	1.00	0.00
ATOM	138	CA	ALA	7	-11.504	6.769	0.427	1.00	0.00
ATOM	140	C	ALA	7	-11.207	5.504	1.226	1.00	0.00
ATOM	141	O	ALA	7	-12.123	4.815	1.676	1.00	0.00
ATOM	139	CB	ALA	7	-11.696	7.955	1.365	1.00	0.00
ATOM	142	H	ALA	7	-13.534	6.981	-0.118	1.00	0.00
ATOM	143	HA	ALA	7	-10.663	6.983	-0.217	1.00	0.00
ATOM	144	1HB	ALA	7	-12.651	7.868	1.862	1.00	0.00
ATOM	145	2HB	ALA	7	-11.669	8.873	0.797	1.00	0.00
ATOM	146	3HB	ALA	7	-10.906	7.964	2.101	1.00	0.00
ATOM	147	N	PRO	8	-9.915	5.184	1.407	1.00	0.00
ATOM	148	CA	PRO	8	-9.477	4.003	2.156	1.00	0.00
ATOM	152	C	PRO	8	-9.849	4.095	3.630	1.00	0.00
ATOM	153	O	PRO	8	-9.203	4.803	4.406	1.00	0.00
ATOM	149	CB	PRO	8	-7.950	4.004	1.988	1.00	0.00
ATOM	150	CG	PRO	8	-7.685	4.920	0.845	1.00	0.00
ATOM	151	CD	PRO	8	-8.770	5.951	0.893	1.00	0.00
ATOM	154	HA	PRO	8	-9.888	3.089	1.745	1.00	0.00
ATOM	155	1HB	PRO	8	-7.610	3.002	1.778	1.00	0.00
ATOM	156	2HB	PRO	8	-7.488	4.362	2.897	1.00	0.00
ATOM	157	1HG	PRO	8	-7.728	4.372	-0.084	1.00	0.00
ATOM	158	2HG	PRO	8	-6.718	5.387	0.964	1.00	0.00
ATOM	159	1HD	PRO	8	-8.974	6.336	-0.094	1.00	0.00
ATOM	160	2HD	PRO	8	-8.504	6.752	1.570	1.00	0.00
ATOM	161	N	ASP	9	-10.906	3.379	3.997	1.00	0.00
ATOM	162	CA	ASP	9	-11.398	3.367	5.368	1.00	0.00
ATOM	167	C	ASP	9	-10.460	2.580	6.282	1.00	0.00
ATOM	168	O	ASP	9	-9.383	2.138	5.872	1.00	0.00
ATOM	163	CB	ASP	9	-12.809	2.760	5.419	1.00	0.00
ATOM	164	CG	ASP	9	-13.692	3.390	6.487	1.00	0.00
ATOM	165	OD1	ASP	9	-13.305	3.365	7.677	1.00	0.00
ATOM	166	OD2	ASP	9	-14.780	3.895	6.136	1.00	0.00
ATOM	169	H	ASP	9	-11.376	2.855	3.320	1.00	0.00
ATOM	170	HA	ASP	9	-11.444	4.390	5.714	1.00	0.00
ATOM	171	1HB	ASP	9	-12.729	1.702	5.622	1.00	0.00
ATOM	172	2HB	ASP	9	-13.287	2.900	4.460	1.00	0.00
ATOM	173	N	THR	10	-10.891	2.415	7.518	1.00	0.00
ATOM	174	CA	THR	10	-10.147	1.702	8.542	1.00	0.00
ATOM	178	C	THR	10	-9.703	0.318	8.077	1.00	0.00
ATOM	179	O	THR	10	-8.607	-0.124	8.402	1.00	0.00
ATOM	175	CB	THR	10	-11.001	1.556	9.812	1.00	0.00
ATOM	176	OG1	THR	10	-12.389	1.460	9.454	1.00	0.00



ATOM	177	CG2	THR	10	-10.793	2.737	10.748	1.00	0.00
ATOM	180	H	THR	10	-11.764	2.799	7.757	1.00	0.00
ATOM	181	HA	THR	10	-9.273	2.289	8.787	1.00	0.00
ATOM	182	HB	THR	10	-10.706	0.652	10.326	1.00	0.00
ATOM	183	HG1	THR	10	-12.693	2.304	9.079	1.00	0.00
ATOM	184	1HG2	THR	10	-11.065	2.451	11.753	1.00	0.00
ATOM	185	2HG2	THR	10	-11.412	3.561	10.427	1.00	0.00
ATOM	186	3HG2	THR	10	-9.756	3.036	10.725	1.00	0.00
ATOM	187	N	ARG	11	-10.555	-0.365	7.314	1.00	0.00
ATOM	188	CA	ARG	11	-10.222	-1.698	6.818	1.00	0.00
ATOM	196	C	ARG	11	-9.029	-1.645	5.875	1.00	0.00
ATOM	197	O	ARG	11	-8.164	-2.517	5.912	1.00	0.00
ATOM	189	CB	ARG	11	-11.418	-2.349	6.122	1.00	0.00
ATOM	190	CG	ARG	11	-11.296	-3.862	6.020	1.00	0.00
ATOM	191	CD	ARG	11	-12.459	-4.470	5.257	1.00	0.00
ATOM	192	NE	ARG	11	-12.200	-4.530	3.820	1.00	0.00
ATOM	193	CZ	ARG	11	-13.136	-4.359	2.888	1.00	0.00
ATOM	194	NH1	ARG	11	-14.404	-4.170	3.235	1.00	0.00
ATOM	195	NH2	ARG	11	-12.802	-4.409	1.608	1.00	0.00
ATOM	198	H	ARG	11	-11.421	0.036	7.084	1.00	0.00
ATOM	199	HA	ARG	11	-9.945	-2.302	7.670	1.00	0.00
ATOM	200	1HB	ARG	11	-11.505	-1.948	5.124	1.00	0.00
ATOM	201	2HB	ARG	11	-12.316	-2.116	6.677	1.00	0.00
ATOM	202	1HG	ARG	11	-11.274	-4.278	7.017	1.00	0.00
ATOM	203	2HG	ARG	11	-10.377	-4.105	5.508	1.00	0.00
ATOM	204	1HD	ARG	11	-13.341	-3.870	5.431	1.00	0.00
ATOM	205	2HD	ARG	11	-12.629	-5.472	5.623	1.00	0.00
ATOM	206	HE	ARG	11	-11.272	-4.705	3.534	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.668	-4.163	4.205	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.107	-4.026	2.530	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.846	-4.575	1.345	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.505	-4.293	0.893	1.00	0.00
ATOM	211	N	ALA	12	-8.964	-0.611	5.048	1.00	0.00
ATOM	212	CA	ALA	12	-7.848	-0.465	4.134	1.00	0.00
ATOM	214	C	ALA	12	-6.600	-0.065	4.908	1.00	0.00
ATOM	215	O	ALA	12	-5.492	-0.481	4.583	1.00	0.00
ATOM	213	CB	ALA	12	-8.168	0.557	3.054	1.00	0.00
ATOM	216	H	ALA	12	-9.665	0.078	5.067	1.00	0.00
ATOM	217	HA	ALA	12	-7.678	-1.423	3.660	1.00	0.00
ATOM	218	1HB	ALA	12	-8.694	0.072	2.244	1.00	0.00
ATOM	219	2HB	ALA	12	-7.249	0.985	2.680	1.00	0.00
ATOM	220	3HB	ALA	12	-8.786	1.339	3.469	1.00	0.00
ATOM	221	N	LEU	13	-6.795	0.740	5.946	1.00	0.00
ATOM	222	CA	LEU	13	-5.688	1.194	6.773	1.00	0.00
ATOM	227	C	LEU	13	-5.140	0.053	7.639	1.00	0.00
ATOM	228	O	LEU	13	-3.927	-0.112	7.758	1.00	0.00
ATOM	223	CB	LEU	13	-6.136	2.377	7.633	1.00	0.00
ATOM	224	CG	LEU	13	-5.355	2.593	8.928	1.00	0.00
ATOM	225	CD1	LEU	13	-4.061	3.345	8.653	1.00	0.00
ATOM	226	CD2	LEU	13	-6.211	3.342	9.936	1.00	0.00
ATOM	229	H	LEU	13	-7.713	1.038	6.163	1.00	0.00
ATOM	230	HA	LEU	13	-4.902	1.526	6.111	1.00	0.00
ATOM	231	1HB	LEU	13	-7.177	2.235	7.887	1.00	0.00
ATOM	232	2HB	LEU	13	-6.049	3.275	7.035	1.00	0.00
ATOM	233	HG	LEU	13	-5.099	1.633	9.351	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.453	2.778	7.964	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.521	3.484	9.578	1.00	0.00
ATOM	236	3HD1	LEU	13	-4.289	4.310	8.222	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.590	2.649	10.673	1.00	0.00
ATOM	238	2HD2	LEU	13	-7.040	3.814	9.428	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.613	4.097	10.426	1.00	0.00
ATOM	240	N	VAL	14	-6.031	-0.739	8.233	1.00	0.00
ATOM	241	CA	VAL	14	-5.606	-1.861	9.069	1.00	0.00
ATOM	245	C	VAL	14	-4.895	-2.912	8.218	1.00	0.00
ATOM	246	O	VAL	14	-3.959	-3.569	8.674	1.00	0.00
ATOM	242	CB	VAL	14	-6.790	-2.503	9.849	1.00	0.00
ATOM	243	CG1	VAL	14	-7.639	-3.404	8.962	1.00	0.00
ATOM	244	CG2	VAL	14	-6.276	-3.279	11.055	1.00	0.00
ATOM	247	H	VAL	14	-6.991	-0.570	8.104	1.00	0.00
ATOM	248	HA	VAL	14	-4.899	-1.473	9.791	1.00	0.00
ATOM	249	HB	VAL	14	-7.423	-1.708	10.214	1.00	0.00
ATOM	250	1HG1	VAL	14	-6.999	-4.097	8.435	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.180	-2.800	8.249	1.00	0.00



ATOM	252	3HG1	VAL	14	-8.338	-3.954	9.573	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.099	-3.794	11.528	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.827	-2.595	11.759	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.539	-3.999	10.733	1.00	0.00
ATOM	256	N	ALA	15	-5.332	-3.050	6.970	1.00	0.00
ATOM	257	CA	ALA	15	-4.724	-4.002	6.054	1.00	0.00
ATOM	259	C	ALA	15	-3.367	-3.494	5.581	1.00	0.00
ATOM	260	O	ALA	15	-2.501	-4.276	5.196	1.00	0.00
ATOM	258	CB	ALA	15	-5.638	-4.262	4.865	1.00	0.00
ATOM	261	H	ALA	15	-6.077	-2.489	6.657	1.00	0.00
ATOM	262	HA	ALA	15	-4.584	-4.933	6.583	1.00	0.00
ATOM	263	1HB	ALA	15	-5.047	-4.329	3.963	1.00	0.00
ATOM	264	2HB	ALA	15	-6.346	-3.451	4.771	1.00	0.00
ATOM	265	3HB	ALA	15	-6.170	-5.189	5.016	1.00	0.00
ATOM	266	N	ASP	16	-3.198	-2.177	5.620	1.00	0.00
ATOM	267	CA	ASP	16	-1.953	-1.537	5.202	1.00	0.00
ATOM	272	C	ASP	16	-0.869	-1.697	6.263	1.00	0.00
ATOM	273	O	ASP	16	0.160	-2.323	6.015	1.00	0.00
ATOM	268	CB	ASP	16	-2.210	-0.052	4.906	1.00	0.00
ATOM	269	CG	ASP	16	-1.032	0.861	5.228	1.00	0.00
ATOM	270	OD1	ASP	16	-0.019	0.809	4.505	1.00	0.00
ATOM	271	OD2	ASP	16	-1.152	1.674	6.172	1.00	0.00
ATOM	274	H	ASP	16	-3.934	-1.613	5.939	1.00	0.00
ATOM	275	HA	ASP	16	-1.624	-2.021	4.295	1.00	0.00
ATOM	276	1HB	ASP	16	-3.060	0.276	5.488	1.00	0.00
ATOM	277	2HB	ASP	16	-2.440	0.060	3.858	1.00	0.00
ATOM	278	N	PHE	17	-1.109	-1.125	7.439	1.00	0.00
ATOM	279	CA	PHE	17	-0.154	-1.184	8.543	1.00	0.00
ATOM	287	C	PHE	17	0.216	-2.621	8.889	1.00	0.00
ATOM	288	O	PHE	17	1.397	-2.970	8.959	1.00	0.00
ATOM	280	CB	PHE	17	-0.718	-0.479	9.779	1.00	0.00
ATOM	281	CG	PHE	17	0.347	0.012	10.720	1.00	0.00
ATOM	282	CD1	PHE	17	1.385	0.808	10.262	1.00	0.00
ATOM	283	CD2	PHE	17	0.313	-0.329	12.062	1.00	0.00
ATOM	284	CE1	PHE	17	2.370	1.251	11.124	1.00	0.00
ATOM	285	CE2	PHE	17	1.294	0.112	12.929	1.00	0.00
ATOM	286	CZ	PHE	17	2.324	0.903	12.460	1.00	0.00
ATOM	289	H	PHE	17	-1.950	-0.634	7.561	1.00	0.00
ATOM	290	HA	PHE	17	0.740	-0.667	8.228	1.00	0.00
ATOM	291	1HB	PHE	17	-1.351	-1.166	10.321	1.00	0.00
ATOM	292	2HB	PHE	17	-1.303	0.372	9.465	1.00	0.00
ATOM	293	HD1	PHE	17	1.422	1.083	9.218	1.00	0.00
ATOM	294	HD2	PHE	17	-0.492	-0.948	12.431	1.00	0.00
ATOM	295	HE1	PHE	17	3.174	1.870	10.755	1.00	0.00
ATOM	296	HE2	PHE	17	1.256	-0.161	13.974	1.00	0.00
ATOM	297	HZ	PHE	17	3.093	1.248	13.136	1.00	0.00
ATOM	298	N	VAL	18	-0.792	-3.457	9.101	1.00	0.00
ATOM	299	CA	VAL	18	-0.558	-4.853	9.435	1.00	0.00
ATOM	303	C	VAL	18	0.028	-5.592	8.237	1.00	0.00
ATOM	304	O	VAL	18	0.921	-6.424	8.386	1.00	0.00
ATOM	300	CB	VAL	18	-1.861	-5.550	9.896	1.00	0.00
ATOM	301	CG1	VAL	18	-1.631	-7.031	10.155	1.00	0.00
ATOM	302	CG2	VAL	18	-2.411	-4.871	11.143	1.00	0.00
ATOM	305	H	VAL	18	-1.714	-3.124	9.028	1.00	0.00
ATOM	306	HA	VAL	18	0.154	-4.887	10.249	1.00	0.00
ATOM	307	HB	VAL	18	-2.594	-5.454	9.110	1.00	0.00
ATOM	308	1HG1	VAL	18	-2.565	-7.565	10.053	1.00	0.00
ATOM	309	2HG1	VAL	18	-1.246	-7.168	11.155	1.00	0.00
ATOM	310	3HG1	VAL	18	-0.918	-7.415	9.440	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.864	-5.610	11.785	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.153	-4.139	10.855	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.607	-4.379	11.670	1.00	0.00
ATOM	314	N	GLY	19	-0.463	-5.267	7.050	1.00	0.00
ATOM	315	CA	GLY	19	0.029	-5.898	5.844	1.00	0.00
ATOM	316	C	GLY	19	1.502	-5.634	5.612	1.00	0.00
ATOM	317	O	GLY	19	2.272	-6.565	5.395	1.00	0.00
ATOM	318	H	GLY	19	-1.162	-4.581	6.990	1.00	0.00
ATOM	319	1HA	GLY	19	-0.530	-5.521	5.000	1.00	0.00
ATOM	320	2HA	GLY	19	-0.128	-6.964	5.919	1.00	0.00
ATOM	321	N	TYR	20	1.885	-4.365	5.650	1.00	0.00
ATOM	322	CA	TYR	20	3.270	-3.958	5.439	1.00	0.00
ATOM	331	C	TYR	20	4.181	-4.562	6.502	1.00	0.00
ATOM	332	O	TYR	20	5.278	-5.034	6.201	1.00	0.00



ATOM	323	CB	TYR	20	3.379	-2.429	5.465	1.00	0.00
ATOM	324	CG	TYR	20	4.771	-1.905	5.181	1.00	0.00
ATOM	325	CD1	TYR	20	5.334	-2.020	3.917	1.00	0.00
ATOM	326	CD2	TYR	20	5.519	-1.291	6.180	1.00	0.00
ATOM	327	CE1	TYR	20	6.604	-1.540	3.655	1.00	0.00
ATOM	328	CE2	TYR	20	6.789	-0.809	5.925	1.00	0.00
ATOM	329	CZ	TYR	20	7.325	-0.936	4.662	1.00	0.00
ATOM	330	OH	TYR	20	8.591	-0.456	4.405	1.00	0.00
ATOM	333	H	TYR	20	1.207	-3.671	5.817	1.00	0.00
ATOM	334	HA	TYR	20	3.576	-4.315	4.467	1.00	0.00
ATOM	335	1HB	TYR	20	3.084	-2.073	6.443	1.00	0.00
ATOM	336	2HB	TYR	20	2.713	-2.016	4.723	1.00	0.00
ATOM	337	HD1	TYR	20	5.096	-1.194	7.168	1.00	0.00
ATOM	338	HD2	TYR	20	4.767	-2.495	3.130	1.00	0.00
ATOM	339	HE1	TYR	20	7.354	-0.335	6.713	1.00	0.00
ATOM	340	HE2	TYR	20	7.026	-1.640	2.665	1.00	0.00
ATOM	341	HH	TYR	20	8.806	0.236	5.042	1.00	0.00
ATOM	342	N	LYS	21	3.710	-4.544	7.743	1.00	0.00
ATOM	343	CA	LYS	21	4.463	-5.084	8.866	1.00	0.00
ATOM	349	C	LYS	21	4.696	-6.578	8.690	1.00	0.00
ATOM	350	O	LYS	21	5.811	-7.069	8.871	1.00	0.00
ATOM	344	CB	LYS	21	3.716	-4.826	10.177	1.00	0.00
ATOM	345	CG	LYS	21	4.498	-3.981	11.170	1.00	0.00
ATOM	346	CD	LYS	21	5.714	-4.722	11.706	1.00	0.00
ATOM	347	CE	LYS	21	6.455	-3.894	12.744	1.00	0.00
ATOM	348	NZ	LYS	21	7.695	-3.281	12.195	1.00	0.00
ATOM	351	H	LYS	21	2.828	-4.156	7.905	1.00	0.00
ATOM	352	HA	LYS	21	5.417	-4.580	8.901	1.00	0.00
ATOM	353	1HB	LYS	21	3.489	-5.774	10.642	1.00	0.00
ATOM	354	2HB	LYS	21	2.790	-4.316	9.954	1.00	0.00
ATOM	355	1HG	LYS	21	3.851	-3.726	11.997	1.00	0.00
ATOM	356	2HG	LYS	21	4.828	-3.080	10.678	1.00	0.00
ATOM	357	1HD	LYS	21	6.383	-4.936	10.883	1.00	0.00
ATOM	358	2HD	LYS	21	5.391	-5.647	12.160	1.00	0.00
ATOM	359	1HE	LYS	21	6.718	-4.534	13.574	1.00	0.00
ATOM	360	2HE	LYS	21	5.801	-3.108	13.091	1.00	0.00
ATOM	361	1HZ	LYS	21	7.681	-3.296	11.153	1.00	0.00
ATOM	362	2HZ	LYS	21	8.531	-3.800	12.532	1.00	0.00
ATOM	363	3HZ	LYS	21	7.776	-2.289	12.521	1.00	0.00
ATOM	364	N	LEU	22	3.642	-7.294	8.334	1.00	0.00
ATOM	365	CA	LEU	22	3.731	-8.731	8.131	1.00	0.00
ATOM	370	C	LEU	22	4.574	-9.033	6.903	1.00	0.00
ATOM	371	O	LEU	22	5.428	-9.913	6.927	1.00	0.00
ATOM	366	CB	LEU	22	2.336	-9.341	7.963	1.00	0.00
ATOM	367	CG	LEU	22	1.671	-9.842	9.249	1.00	0.00
ATOM	368	CD1	LEU	22	1.643	-8.748	10.303	1.00	0.00
ATOM	369	CD2	LEU	22	0.264	-10.327	8.951	1.00	0.00
ATOM	372	H	LEU	22	2.777	-6.842	8.204	1.00	0.00
ATOM	373	HA	LEU	22	4.207	-9.163	8.999	1.00	0.00
ATOM	374	1HB	LEU	22	2.414	-10.174	7.280	1.00	0.00
ATOM	375	2HB	LEU	22	1.692	-8.595	7.520	1.00	0.00
ATOM	376	HG	LEU	22	2.234	-10.674	9.648	1.00	0.00
ATOM	377	1HD1	LEU	22	2.168	-9.085	11.184	1.00	0.00
ATOM	378	2HD1	LEU	22	0.618	-8.523	10.560	1.00	0.00
ATOM	379	3HD1	LEU	22	2.121	-7.861	9.916	1.00	0.00
ATOM	380	1HD2	LEU	22	0.247	-11.407	8.955	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.044	-9.966	7.981	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.412	-9.955	9.706	1.00	0.00
ATOM	383	N	ARG	23	4.323	-8.292	5.830	1.00	0.00
ATOM	384	CA	ARG	23	5.043	-8.465	4.572	1.00	0.00
ATOM	392	C	ARG	23	6.543	-8.247	4.745	1.00	0.00
ATOM	393	O	ARG	23	7.344	-8.817	4.008	1.00	0.00
ATOM	385	CB	ARG	23	4.497	-7.498	3.516	1.00	0.00
ATOM	386	CG	ARG	23	3.822	-8.176	2.342	1.00	0.00
ATOM	387	CD	ARG	23	3.669	-7.214	1.172	1.00	0.00
ATOM	388	NE	ARG	23	4.833	-6.339	1.015	1.00	0.00
ATOM	389	CZ	ARG	23	5.379	-6.016	-0.160	1.00	0.00
ATOM	390	NH1	ARG	23	4.852	-6.467	-1.292	1.00	0.00
ATOM	391	NH2	ARG	23	6.443	-5.230	-0.200	1.00	0.00
ATOM	394	H	ARG	23	3.622	-7.603	5.885	1.00	0.00
ATOM	395	HA	ARG	23	4.879	-9.478	4.236	1.00	0.00
ATOM	396	1HB	ARG	23	5.310	-6.906	3.129	1.00	0.00
ATOM	397	2HB	ARG	23	3.778	-6.842	3.982	1.00	0.00



ATOM	398	1HG	ARG	23	2.843	-8.516	2.648	1.00	0.00
ATOM	399	2HG	ARG	23	4.420	-9.018	2.030	1.00	0.00
ATOM	400	1HD	ARG	23	2.788	-6.604	1.334	1.00	0.00
ATOM	401	2HD	ARG	23	3.544	-7.790	0.266	1.00	0.00
ATOM	402	HE	ARG	23	5.232	-5.971	1.835	1.00	0.00
ATOM	403	1HH1	ARG	23	4.042	-7.048	-1.275	1.00	0.00
ATOM	404	2HH1	ARG	23	5.274	-6.229	-2.182	1.00	0.00
ATOM	405	1HH2	ARG	23	6.843	-4.871	0.656	1.00	0.00
ATOM	406	2HH2	ARG	23	6.864	-4.984	-1.087	1.00	0.00
ATOM	407	N	GLN	24	6.920	-7.410	5.703	1.00	0.00
ATOM	408	CA	GLN	24	8.329	-7.125	5.933	1.00	0.00
ATOM	414	C	GLN	24	8.987	-8.151	6.862	1.00	0.00
ATOM	415	O	GLN	24	10.209	-8.308	6.843	1.00	0.00
ATOM	409	CB	GLN	24	8.510	-5.706	6.483	1.00	0.00
ATOM	410	CG	GLN	24	8.501	-5.633	7.995	1.00	0.00
ATOM	411	CD	GLN	24	8.638	-4.218	8.522	1.00	0.00
ATOM	412	OE1	GLN	24	7.927	-3.810	9.441	1.00	0.00
ATOM	413	NE2	GLN	24	9.562	-3.463	7.949	1.00	0.00
ATOM	416	H	GLN	24	6.238	-6.965	6.256	1.00	0.00
ATOM	417	HA	GLN	24	8.819	-7.178	4.982	1.00	0.00
ATOM	418	1HB	GLN	24	7.711	-5.083	6.109	1.00	0.00
ATOM	419	2HB	GLN	24	9.453	-5.315	6.132	1.00	0.00
ATOM	420	1HG	GLN	24	9.320	-6.225	8.376	1.00	0.00
ATOM	421	2HG	GLN	24	7.571	-6.046	8.344	1.00	0.00
ATOM	422	1HE2	GLN	24	10.099	-3.854	7.229	1.00	0.00
ATOM	423	2HE2	GLN	24	9.673	-2.534	8.268	1.00	0.00
ATOM	424	N	LYS	25	8.195	-8.836	7.686	1.00	0.00
ATOM	425	CA	LYS	25	8.757	-9.809	8.618	1.00	0.00
ATOM	431	C	LYS	25	7.815	-10.985	8.885	1.00	0.00
ATOM	432	O	LYS	25	7.343	-11.172	10.010	1.00	0.00
ATOM	426	CB	LYS	25	9.102	-9.116	9.941	1.00	0.00
ATOM	427	CG	LYS	25	10.373	-9.637	10.594	1.00	0.00
ATOM	428	CD	LYS	25	10.763	-8.796	11.801	1.00	0.00
ATOM	429	CE	LYS	25	11.137	-9.664	12.993	1.00	0.00
ATOM	430	NZ	LYS	25	12.570	-9.513	13.360	1.00	0.00
ATOM	433	H	LYS	25	7.226	-8.673	7.679	1.00	0.00
ATOM	434	HA	LYS	25	9.669	-10.191	8.182	1.00	0.00
ATOM	435	1HB	LYS	25	8.284	-9.258	10.631	1.00	0.00
ATOM	436	2HB	LYS	25	9.226	-8.059	9.756	1.00	0.00
ATOM	437	1HG	LYS	25	11.175	-9.608	9.871	1.00	0.00
ATOM	438	2HG	LYS	25	10.210	-10.655	10.915	1.00	0.00
ATOM	439	1HD	LYS	25	9.929	-8.167	12.075	1.00	0.00
ATOM	440	2HD	LYS	25	11.610	-8.180	11.540	1.00	0.00
ATOM	441	1HE	LYS	25	10.946	-10.698	12.744	1.00	0.00
ATOM	442	2HE	LYS	25	10.525	-9.379	13.836	1.00	0.00
ATOM	443	1HZ	LYS	25	12.674	-9.440	14.390	1.00	0.00
ATOM	444	2HZ	LYS	25	12.965	-8.650	12.923	1.00	0.00
ATOM	445	3HZ	LYS	25	13.115	-10.338	13.025	1.00	0.00
ATOM	446	N	GLY	26	7.557	-11.788	7.861	1.00	0.00
ATOM	447	CA	GLY	26	6.691	-12.940	8.039	1.00	0.00
ATOM	448	C	GLY	26	5.938	-13.311	6.783	1.00	0.00
ATOM	449	O	GLY	26	6.217	-14.327	6.152	1.00	0.00
ATOM	450	H	GLY	26	7.961	-11.607	6.988	1.00	0.00
ATOM	451	1HA	GLY	26	5.978	-12.720	8.819	1.00	0.00
ATOM	452	2HA	GLY	26	7.290	-13.782	8.345	1.00	0.00
ATOM	453	N	TYR	27	4.989	-12.475	6.417	1.00	0.00
ATOM	454	CA	TYR	27	4.181	-12.693	5.230	1.00	0.00
ATOM	463	C	TYR	27	4.840	-12.040	4.018	1.00	0.00
ATOM	464	O	TYR	27	4.212	-11.279	3.284	1.00	0.00
ATOM	455	CB	TYR	27	2.771	-12.133	5.456	1.00	0.00
ATOM	456	CG	TYR	27	1.680	-12.867	4.708	1.00	0.00
ATOM	457	CD1	TYR	27	1.642	-14.255	4.679	1.00	0.00
ATOM	458	CD2	TYR	27	0.684	-12.169	4.038	1.00	0.00
ATOM	459	CE1	TYR	27	0.641	-14.928	4.004	1.00	0.00
ATOM	460	CE2	TYR	27	-0.321	-12.834	3.360	1.00	0.00
ATOM	461	CZ	TYR	27	-0.339	-14.214	3.346	1.00	0.00
ATOM	462	OH	TYR	27	-1.341	-14.882	2.674	1.00	0.00
ATOM	465	H	TYR	27	4.832	-11.672	6.960	1.00	0.00
ATOM	466	HA	TYR	27	4.116	-13.758	5.061	1.00	0.00
ATOM	467	1HB	TYR	27	2.749	-11.098	5.149	1.00	0.00
ATOM	468	2HB	TYR	27	2.539	-12.190	6.509	1.00	0.00
ATOM	469	HD1	TYR	27	2.410	-14.812	5.196	1.00	0.00
ATOM	470	HD2	TYR	27	0.701	-11.090	4.051	1.00	0.00



ATOM	471	HE1	TYR	27	0.629	-16.008	3.995	1.00	0.00
ATOM	472	HE2	TYR	27	-1.086	-12.272	2.845	1.00	0.00
ATOM	473	HH	TYR	27	-1.985	-15.221	3.311	1.00	0.00
ATOM	474	N	VAL	28	6.118	-12.344	3.823	1.00	0.00
ATOM	475	CA	VAL	28	6.877	-11.788	2.713	1.00	0.00
ATOM	479	C	VAL	28	6.553	-12.528	1.419	1.00	0.00
ATOM	480	O	VAL	28	6.612	-11.958	0.329	1.00	0.00
ATOM	476	CB	VAL	28	8.399	-11.829	2.995	1.00	0.00
ATOM	477	CG1	VAL	28	8.917	-13.258	3.054	1.00	0.00
ATOM	478	CG2	VAL	28	9.159	-11.023	1.954	1.00	0.00
ATOM	481	H	VAL	28	6.562	-12.956	4.449	1.00	0.00
ATOM	482	HA	VAL	28	6.582	-10.755	2.601	1.00	0.00
ATOM	483	HB	VAL	28	8.570	-11.372	3.959	1.00	0.00
ATOM	484	1HG1	VAL	28	8.208	-13.876	3.583	1.00	0.00
ATOM	485	2HG1	VAL	28	9.867	-13.277	3.570	1.00	0.00
ATOM	486	3HG1	VAL	28	9.046	-13.636	2.051	1.00	0.00
ATOM	487	1HG2	VAL	28	8.691	-11.153	0.990	1.00	0.00
ATOM	488	2HG2	VAL	28	10.183	-11.366	1.906	1.00	0.00
ATOM	489	3HG2	VAL	28	9.141	-9.978	2.224	1.00	0.00
ATOM	490	N	CYS	29	6.179	-13.795	1.555	1.00	0.00
ATOM	491	CA	CYS	29	5.813	-14.616	0.412	1.00	0.00
ATOM	494	C	CYS	29	4.470	-14.157	-0.132	1.00	0.00
ATOM	495	O	CYS	29	4.194	-14.255	-1.327	1.00	0.00
ATOM	492	CB	CYS	29	5.745	-16.083	0.827	1.00	0.00
ATOM	493	SG	CYS	29	6.924	-16.528	2.122	1.00	0.00
ATOM	496	H	CYS	29	6.134	-14.183	2.451	1.00	0.00
ATOM	497	HA	CYS	29	6.569	-14.492	-0.350	1.00	0.00
ATOM	498	1HB	CYS	29	5.948	-16.699	-0.032	1.00	0.00
ATOM	499	2HB	CYS	29	4.753	-16.300	1.195	1.00	0.00
ATOM	500	HG	CYS	29	7.462	-17.701	1.796	1.00	0.00
ATOM	501	N	GLY	30	3.653	-13.625	0.764	1.00	0.00
ATOM	502	CA	GLY	30	2.355	-13.112	0.386	1.00	0.00
ATOM	503	C	GLY	30	2.420	-11.622	0.153	1.00	0.00
ATOM	504	O	GLY	30	1.723	-10.841	0.804	1.00	0.00
ATOM	505	H	GLY	30	3.948	-13.558	1.693	1.00	0.00
ATOM	506	1HA	GLY	30	1.652	-13.313	1.175	1.00	0.00
ATOM	507	2HA	GLY	30	2.028	-13.602	-0.519	1.00	0.00
ATOM	508	N	ALA	31	3.284	-11.232	-0.768	1.00	0.00
ATOM	509	CA	ALA	31	3.483	-9.833	-1.105	1.00	0.00
ATOM	511	C	ALA	31	2.221	-9.237	-1.711	1.00	0.00
ATOM	512	O	ALA	31	1.813	-9.611	-2.807	1.00	0.00
ATOM	510	CB	ALA	31	4.651	-9.690	-2.065	1.00	0.00
ATOM	513	H	ALA	31	3.813	-11.916	-1.231	1.00	0.00
ATOM	514	HA	ALA	31	3.724	-9.298	-0.197	1.00	0.00
ATOM	515	1HB	ALA	31	5.125	-10.652	-2.203	1.00	0.00
ATOM	516	2HB	ALA	31	5.368	-8.992	-1.659	1.00	0.00
ATOM	517	3HB	ALA	31	4.292	-9.326	-3.016	1.00	0.00
ATOM	518	N	GLY	32	1.596	-8.315	-0.991	1.00	0.00
ATOM	519	CA	GLY	32	0.378	-7.705	-1.490	1.00	0.00
ATOM	520	C	GLY	32	-0.228	-6.697	-0.531	1.00	0.00
ATOM	521	O	GLY	32	-0.392	-5.536	-0.892	1.00	0.00
ATOM	522	H	GLY	32	1.956	-8.052	-0.114	1.00	0.00
ATOM	523	1HA	GLY	32	-0.346	-8.485	-1.678	1.00	0.00
ATOM	524	2HA	GLY	32	0.598	-7.207	-2.422	1.00	0.00
ATOM	525	N	PRO	33	-0.579	-7.104	0.706	1.00	0.00
ATOM	526	CA	PRO	33	-1.183	-6.194	1.688	1.00	0.00
ATOM	530	C	PRO	33	-0.292	-4.991	1.975	1.00	0.00
ATOM	531	O	PRO	33	-0.738	-3.849	1.939	1.00	0.00
ATOM	527	CB	PRO	33	-1.343	-7.067	2.938	1.00	0.00
ATOM	528	CG	PRO	33	-1.354	-8.465	2.426	1.00	0.00
ATOM	529	CD	PRO	33	-0.431	-8.467	1.244	1.00	0.00
ATOM	532	HA	PRO	33	-2.152	-5.849	1.359	1.00	0.00
ATOM	533	1HB	PRO	33	-2.268	-6.822	3.437	1.00	0.00
ATOM	534	2HB	PRO	33	-0.511	-6.897	3.606	1.00	0.00
ATOM	535	1HG	PRO	33	-2.354	-8.739	2.122	1.00	0.00
ATOM	536	2HG	PRO	33	-0.993	-9.139	3.188	1.00	0.00
ATOM	537	1HD	PRO	33	-0.737	-9.201	0.520	1.00	0.00
ATOM	538	2HD	PRO	33	0.585	-8.648	1.560	1.00	0.00
ATOM	539	N	GLY	34	0.974	-5.263	2.244	1.00	0.00
ATOM	540	CA	GLY	34	1.920	-4.205	2.522	1.00	0.00
ATOM	541	C	GLY	34	2.697	-3.781	1.298	1.00	0.00
ATOM	542	O	GLY	34	3.862	-3.400	1.402	1.00	0.00
ATOM	543	H	GLY	34	1.271	-6.192	2.252	1.00	0.00



ATOM	544	1HA	GLY	34	2.615	-4.552	3.272	1.00	0.00
ATOM	545	2HA	GLY	34	1.387	-3.350	2.912	1.00	0.00
ATOM	546	N	GLU	35	2.065	-3.850	0.133	1.00	0.00
ATOM	547	CA	GLU	35	2.730	-3.459	-1.099	1.00	0.00
ATOM	553	C	GLU	35	2.601	-1.950	-1.310	1.00	0.00
ATOM	554	O	GLU	35	3.389	-1.343	-2.037	1.00	0.00
ATOM	548	CB	GLU	35	2.168	-4.239	-2.297	1.00	0.00
ATOM	549	CG	GLU	35	1.036	-3.539	-3.037	1.00	0.00
ATOM	550	CD	GLU	35	1.079	-3.787	-4.531	1.00	0.00
ATOM	551	OE1	GLU	35	1.320	-4.943	-4.938	1.00	0.00
ATOM	552	OE2	GLU	35	0.873	-2.828	-5.301	1.00	0.00
ATOM	555	H	GLU	35	1.136	-4.167	0.103	1.00	0.00
ATOM	556	HA	GLU	35	3.775	-3.706	-0.985	1.00	0.00
ATOM	557	1HB	GLU	35	1.801	-5.193	-1.946	1.00	0.00
ATOM	558	2HB	GLU	35	2.968	-4.415	-3.001	1.00	0.00
ATOM	559	1HG	GLU	35	1.109	-2.476	-2.859	1.00	0.00
ATOM	560	2HG	GLU	35	0.094	-3.903	-2.653	1.00	0.00
ATOM	561	N	GLY	36	1.611	-1.355	-0.647	1.00	0.00
ATOM	562	CA	GLY	36	1.392	0.074	-0.752	1.00	0.00
ATOM	563	C	GLY	36	2.070	0.834	0.370	1.00	0.00
ATOM	564	O	GLY	36	2.177	0.326	1.483	1.00	0.00
ATOM	565	H	GLY	36	1.032	-1.892	-0.071	1.00	0.00
ATOM	566	1HA	GLY	36	0.331	0.271	-0.717	1.00	0.00
ATOM	567	2HA	GLY	36	1.784	0.421	-1.697	1.00	0.00
ATOM	568	N	PRO	37	2.570	2.048	0.099	1.00	0.00
ATOM	569	CA	PRO	37	3.264	2.859	1.082	1.00	0.00
ATOM	573	C	PRO	37	2.374	3.916	1.746	1.00	0.00
ATOM	574	O	PRO	37	1.142	3.828	1.739	1.00	0.00
ATOM	570	CB	PRO	37	4.326	3.530	0.218	1.00	0.00
ATOM	571	CG	PRO	37	3.664	3.730	-1.112	1.00	0.00
ATOM	572	CD	PRO	37	2.537	2.721	-1.207	1.00	0.00
ATOM	575	HA	PRO	37	3.740	2.256	1.838	1.00	0.00
ATOM	576	1HB	PRO	37	5.187	2.885	0.135	1.00	0.00
ATOM	577	2HB	PRO	37	4.614	4.471	0.664	1.00	0.00
ATOM	578	1HG	PRO	37	4.380	3.564	-1.903	1.00	0.00
ATOM	579	2HG	PRO	37	3.269	4.733	-1.172	1.00	0.00
ATOM	580	1HD	PRO	37	2.724	2.020	-2.007	1.00	0.00
ATOM	581	2HD	PRO	37	1.592	3.222	-1.357	1.00	0.00
ATOM	582	N	ALA	38	3.021	4.923	2.315	1.00	0.00
ATOM	583	CA	ALA	38	2.335	6.013	2.988	1.00	0.00
ATOM	585	C	ALA	38	1.842	7.054	1.987	1.00	0.00
ATOM	586	O	ALA	38	2.514	8.049	1.736	1.00	0.00
ATOM	584	CB	ALA	38	3.277	6.649	3.995	1.00	0.00
ATOM	587	H	ALA	38	4.000	4.935	2.278	1.00	0.00
ATOM	588	HA	ALA	38	1.489	5.609	3.526	1.00	0.00
ATOM	589	1HB	ALA	38	4.289	6.334	3.790	1.00	0.00
ATOM	590	2HB	ALA	38	2.998	6.342	4.992	1.00	0.00
ATOM	591	3HB	ALA	38	3.213	7.725	3.917	1.00	0.00
ATOM	592	N	ALA	39	0.672	6.817	1.409	1.00	0.00
ATOM	593	CA	ALA	39	0.112	7.744	0.430	1.00	0.00
ATOM	595	C	ALA	39	-1.289	8.188	0.828	1.00	0.00
ATOM	596	O	ALA	39	-1.938	8.950	0.116	1.00	0.00
ATOM	594	CB	ALA	39	0.091	7.101	-0.951	1.00	0.00
ATOM	597	H	ALA	39	0.179	5.998	1.635	1.00	0.00
ATOM	598	HA	ALA	39	0.755	8.611	0.387	1.00	0.00
ATOM	599	1HB	ALA	39	0.789	6.276	-0.975	1.00	0.00
ATOM	600	2HB	ALA	39	0.372	7.832	-1.694	1.00	0.00
ATOM	601	3HB	ALA	39	-0.903	6.736	-1.163	1.00	0.00
ATOM	602	N	ASP	40	-1.750	7.701	1.969	1.00	0.00
ATOM	603	CA	ASP	40	-3.073	8.037	2.461	1.00	0.00
ATOM	608	C	ASP	40	-2.980	9.029	3.611	1.00	0.00
ATOM	609	O	ASP	40	-1.919	9.179	4.226	1.00	0.00
ATOM	604	CB	ASP	40	-3.799	6.774	2.920	1.00	0.00
ATOM	605	CG	ASP	40	-4.354	5.976	1.761	1.00	0.00
ATOM	606	OD1	ASP	40	-4.878	6.592	0.816	1.00	0.00
ATOM	607	OD2	ASP	40	-4.254	4.735	1.794	1.00	0.00
ATOM	610	H	ASP	40	-1.192	7.105	2.489	1.00	0.00
ATOM	611	HA	ASP	40	-3.626	8.489	1.652	1.00	0.00
ATOM	612	1HB	ASP	40	-4.617	7.059	3.564	1.00	0.00
ATOM	613	2HB	ASP	40	-3.112	6.148	3.471	1.00	0.00
ATOM	614	N	PRO	41	-4.097	9.696	3.937	1.00	0.00
ATOM	615	CA	PRO	41	-4.165	10.670	5.024	1.00	0.00
ATOM	619	C	PRO	41	-4.304	9.994	6.384	1.00	0.00



ATOM	620	O	PRO	41	-5.130	10.377	7.211	1.00	0.00
ATOM	616	CB	PRO	41	-5.404	11.501	4.687	1.00	0.00
ATOM	617	CG	PRO	41	-6.258	10.638	3.812	1.00	0.00
ATOM	618	CD	PRO	41	-5.395	9.524	3.271	1.00	0.00
ATOM	621	HA	PRO	41	-3.292	11.307	5.032	1.00	0.00
ATOM	622	1HB	PRO	41	-5.101	12.400	4.171	1.00	0.00
ATOM	623	2HB	PRO	41	-5.917	11.763	5.598	1.00	0.00
ATOM	624	1HG	PRO	41	-6.653	11.229	2.998	1.00	0.00
ATOM	625	2HG	PRO	41	-7.069	10.224	4.393	1.00	0.00
ATOM	626	1HD	PRO	41	-5.285	9.606	2.202	1.00	0.00
ATOM	627	2HD	PRO	41	-5.821	8.565	3.525	1.00	0.00
ATOM	628	N	LEU	42	-3.466	8.988	6.591	1.00	0.00
ATOM	629	CA	LEU	42	-3.426	8.217	7.828	1.00	0.00
ATOM	634	C	LEU	42	-2.269	7.234	7.754	1.00	0.00
ATOM	635	O	LEU	42	-1.646	6.909	8.761	1.00	0.00
ATOM	630	CB	LEU	42	-4.738	7.452	8.081	1.00	0.00
ATOM	631	CG	LEU	42	-5.612	7.185	6.849	1.00	0.00
ATOM	632	CD1	LEU	42	-5.390	5.779	6.317	1.00	0.00
ATOM	633	CD2	LEU	42	-7.081	7.397	7.184	1.00	0.00
ATOM	636	H	LEU	42	-2.835	8.762	5.877	1.00	0.00
ATOM	637	HA	LEU	42	-3.246	8.908	8.641	1.00	0.00
ATOM	638	1HB	LEU	42	-5.322	8.016	8.793	1.00	0.00
ATOM	639	2HB	LEU	42	-4.484	6.501	8.528	1.00	0.00
ATOM	640	HG	LEU	42	-5.344	7.882	6.068	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.342	5.641	6.089	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.974	5.635	5.420	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.692	5.059	7.063	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.165	8.070	8.026	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.534	6.450	7.435	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.587	7.824	6.330	1.00	0.00
ATOM	647	N	HIS	43	-1.987	6.776	6.538	1.00	0.00
ATOM	648	CA	HIS	43	-0.898	5.834	6.289	1.00	0.00
ATOM	655	C	HIS	43	0.427	6.418	6.765	1.00	0.00
ATOM	656	O	HIS	43	1.107	5.844	7.616	1.00	0.00
ATOM	649	CB	HIS	43	-0.791	5.545	4.793	1.00	0.00
ATOM	650	CG	HIS	43	-1.607	4.384	4.297	1.00	0.00
ATOM	651	ND1	HIS	43	-1.230	3.618	3.211	1.00	0.00
ATOM	652	CD2	HIS	43	-2.817	3.908	4.685	1.00	0.00
ATOM	653	CE1	HIS	43	-2.174	2.735	2.951	1.00	0.00
ATOM	654	NE2	HIS	43	-3.145	2.888	3.831	1.00	0.00
ATOM	657	H	HIS	43	-2.526	7.085	5.784	1.00	0.00
ATOM	658	HA	HIS	43	-1.102	4.921	6.826	1.00	0.00
ATOM	659	1HB	HIS	43	0.242	5.356	4.562	1.00	0.00
ATOM	660	2HB	HIS	43	-1.113	6.422	4.250	1.00	0.00
ATOM	661	HD1	HIS	43	-0.376	3.680	2.726	1.00	0.00
ATOM	662	HD2	HIS	43	-3.415	4.267	5.513	1.00	0.00
ATOM	663	HE1	HIS	43	-2.154	2.007	2.153	1.00	0.00
ATOM	664	HE2	HIS	43	-4.013	2.440	3.790	1.00	0.00
ATOM	665	N	GLN	44	0.779	7.572	6.200	1.00	0.00
ATOM	666	CA	GLN	44	2.019	8.269	6.543	1.00	0.00
ATOM	672	C	GLN	44	2.068	8.589	8.034	1.00	0.00
ATOM	673	O	GLN	44	3.142	8.729	8.620	1.00	0.00
ATOM	667	CB	GLN	44	2.138	9.561	5.723	1.00	0.00
ATOM	668	CG	GLN	44	3.337	10.422	6.093	1.00	0.00
ATOM	669	CD	GLN	44	4.086	10.936	4.880	1.00	0.00
ATOM	670	OE1	GLN	44	4.432	10.173	3.982	1.00	0.00
ATOM	671	NE2	GLN	44	4.344	12.235	4.853	1.00	0.00
ATOM	674	H	GLN	44	0.188	7.968	5.526	1.00	0.00
ATOM	675	HA	GLN	44	2.845	7.618	6.298	1.00	0.00
ATOM	676	1HB	GLN	44	1.242	10.147	5.868	1.00	0.00
ATOM	677	2HB	GLN	44	2.220	9.301	4.679	1.00	0.00
ATOM	678	1HG	GLN	44	4.015	9.833	6.693	1.00	0.00
ATOM	679	2HG	GLN	44	2.991	11.268	6.669	1.00	0.00
ATOM	680	1HE2	GLN	44	4.044	12.782	5.603	1.00	0.00
ATOM	681	2HE2	GLN	44	4.830	12.600	4.077	1.00	0.00
ATOM	682	N	ALA	45	0.899	8.688	8.639	1.00	0.00
ATOM	683	CA	ALA	45	0.805	8.987	10.057	1.00	0.00
ATOM	685	C	ALA	45	1.163	7.773	10.902	1.00	0.00
ATOM	686	O	ALA	45	1.977	7.865	11.824	1.00	0.00
ATOM	684	CB	ALA	45	-0.592	9.471	10.401	1.00	0.00
ATOM	687	H	ALA	45	0.078	8.546	8.118	1.00	0.00
ATOM	688	HA	ALA	45	1.500	9.782	10.276	1.00	0.00
ATOM	689	1HB	ALA	45	-1.323	8.841	9.917	1.00	0.00



ATOM	690	2HB	ALA	45	-0.713	10.490	10.062	1.00	0.00
ATOM	691	3HB	ALA	45	-0.734	9.429	11.472	1.00	0.00
ATOM	692	N	MET	46	0.547	6.638	10.595	1.00	0.00
ATOM	693	CA	MET	46	0.799	5.419	11.350	1.00	0.00
ATOM	698	C	MET	46	2.222	4.911	11.155	1.00	0.00
ATOM	699	O	MET	46	2.832	4.400	12.093	1.00	0.00
ATOM	694	CB	MET	46	-0.193	4.330	10.962	1.00	0.00
ATOM	695	CG	MET	46	-0.778	3.607	12.160	1.00	0.00
ATOM	696	SD	MET	46	-2.291	2.728	11.762	1.00	0.00
ATOM	697	CE	MET	46	-3.486	3.999	12.132	1.00	0.00
ATOM	700	H	MET	46	-0.104	6.621	9.850	1.00	0.00
ATOM	701	HA	MET	46	0.662	5.653	12.396	1.00	0.00
ATOM	702	1HB	MET	46	0.309	3.604	10.339	1.00	0.00
ATOM	703	2HB	MET	46	-1.003	4.776	10.402	1.00	0.00
ATOM	704	1HG	MET	46	-0.994	4.333	12.930	1.00	0.00
ATOM	705	2HG	MET	46	-0.057	2.900	12.530	1.00	0.00
ATOM	706	1HE	MET	46	-2.971	4.907	12.411	1.00	0.00
ATOM	707	2HE	MET	46	-4.112	3.676	12.951	1.00	0.00
ATOM	708	3HE	MET	46	-4.097	4.184	11.262	1.00	0.00
ATOM	709	N	ARG	47	2.740	5.039	9.938	1.00	0.00
ATOM	710	CA	ARG	47	4.090	4.567	9.632	1.00	0.00
ATOM	718	C	ARG	47	5.149	5.278	10.479	1.00	0.00
ATOM	719	O	ARG	47	6.155	4.677	10.849	1.00	0.00
ATOM	711	CB	ARG	47	4.400	4.725	8.132	1.00	0.00
ATOM	712	CG	ARG	47	4.749	6.144	7.696	1.00	0.00
ATOM	713	CD	ARG	47	6.252	6.337	7.545	1.00	0.00
ATOM	714	NE	ARG	47	6.581	7.404	6.599	1.00	0.00
ATOM	715	CZ	ARG	47	6.734	8.690	6.934	1.00	0.00
ATOM	716	NH1	ARG	47	6.593	9.076	8.198	1.00	0.00
ATOM	717	NH2	ARG	47	7.028	9.587	6.001	1.00	0.00
ATOM	720	H	ARG	47	2.198	5.443	9.225	1.00	0.00
ATOM	721	HA	ARG	47	4.120	3.516	9.875	1.00	0.00
ATOM	722	1HB	ARG	47	3.535	4.405	7.567	1.00	0.00
ATOM	723	2HB	ARG	47	5.233	4.086	7.883	1.00	0.00
ATOM	724	1HG	ARG	47	4.379	6.838	8.438	1.00	0.00
ATOM	725	2HG	ARG	47	4.276	6.344	6.748	1.00	0.00
ATOM	726	1HD	ARG	47	6.688	5.411	7.196	1.00	0.00
ATOM	727	2HD	ARG	47	6.669	6.587	8.510	1.00	0.00
ATOM	728	HE	ARG	47	6.701	7.143	5.653	1.00	0.00
ATOM	729	1HH1	ARG	47	6.371	8.406	8.908	1.00	0.00
ATOM	730	2HH1	ARG	47	6.707	10.041	8.447	1.00	0.00
ATOM	731	1HH2	ARG	47	7.133	9.301	5.038	1.00	0.00
ATOM	732	2HH2	ARG	47	7.150	10.551	6.245	1.00	0.00
ATOM	733	N	ALA	48	4.921	6.552	10.793	1.00	0.00
ATOM	734	CA	ALA	48	5.875	7.304	11.596	1.00	0.00
ATOM	736	C	ALA	48	5.699	6.978	13.064	1.00	0.00
ATOM	737	O	ALA	48	6.674	6.792	13.790	1.00	0.00
ATOM	735	CB	ALA	48	5.723	8.795	11.357	1.00	0.00
ATOM	738	H	ALA	48	4.095	6.988	10.488	1.00	0.00
ATOM	739	HA	ALA	48	6.873	7.009	11.292	1.00	0.00
ATOM	740	1HB	ALA	48	6.699	9.255	11.317	1.00	0.00
ATOM	741	2HB	ALA	48	5.151	9.233	12.162	1.00	0.00
ATOM	742	3HB	ALA	48	5.210	8.959	10.421	1.00	0.00
ATOM	743	N	ALA	49	4.445	6.891	13.487	1.00	0.00
ATOM	744	CA	ALA	49	4.134	6.562	14.865	1.00	0.00
ATOM	746	C	ALA	49	4.728	5.206	15.210	1.00	0.00
ATOM	747	O	ALA	49	5.490	5.079	16.169	1.00	0.00
ATOM	745	CB	ALA	49	2.632	6.560	15.078	1.00	0.00
ATOM	748	H	ALA	49	3.712	7.038	12.850	1.00	0.00
ATOM	749	HA	ALA	49	4.572	7.317	15.503	1.00	0.00
ATOM	750	1HB	ALA	49	2.217	5.633	14.709	1.00	0.00
ATOM	751	2HB	ALA	49	2.190	7.389	14.544	1.00	0.00
ATOM	752	3HB	ALA	49	2.417	6.657	16.131	1.00	0.00
ATOM	753	N	GLY	50	4.374	4.204	14.406	1.00	0.00
ATOM	754	CA	GLY	50	4.875	2.856	14.602	1.00	0.00
ATOM	755	C	GLY	50	6.386	2.815	14.716	1.00	0.00
ATOM	756	O	GLY	50	6.912	2.243	15.657	1.00	0.00
ATOM	757	H	GLY	50	3.757	4.383	13.662	1.00	0.00
ATOM	758	1HA	GLY	50	4.572	2.244	13.766	1.00	0.00
ATOM	759	2HA	GLY	50	4.446	2.451	15.506	1.00	0.00
ATOM	760	N	ASP	51	7.074	3.442	13.762	1.00	0.00
ATOM	761	CA	ASP	51	8.540	3.498	13.754	1.00	0.00
ATOM	766	C	ASP	51	9.072	4.054	15.071	1.00	0.00



ATOM	767	O	ASP	S1	9.959	3.469	15.700	1.00	0.00
ATOM	762	CB	ASP	S1	9.019	4.387	12.598	1.00	0.00
ATOM	763	CG	ASP	S1	10.448	4.086	12.180	1.00	0.00
ATOM	764	OD1	ASP	S1	11.373	4.296	12.994	1.00	0.00
ATOM	765	OD2	ASP	S1	10.654	3.645	11.029	1.00	0.00
ATOM	768	H	ASP	S1	6.587	3.887	13.044	1.00	0.00
ATOM	769	HA	ASP	S1	8.918	2.497	13.612	1.00	0.00
ATOM	770	1HB	ASP	S1	8.963	5.422	12.903	1.00	0.00
ATOM	771	2HB	ASP	S1	8.376	4.237	11.743	1.00	0.00
ATOM	772	N	GLU	S2	8.517	5.188	15.478	1.00	0.00
ATOM	773	CA	GLU	S2	8.909	5.854	16.713	1.00	0.00
ATOM	779	C	GLU	S2	8.714	4.933	17.924	1.00	0.00
ATOM	780	O	GLU	S2	9.613	4.782	18.758	1.00	0.00
ATOM	774	CB	GLU	S2	8.100	7.153	16.868	1.00	0.00
ATOM	775	CG	GLU	S2	7.856	7.582	18.305	1.00	0.00
ATOM	776	CD	GLU	S2	8.925	8.518	18.819	1.00	0.00
ATOM	777	OE1	GLU	S2	10.006	8.031	19.202	1.00	0.00
ATOM	778	OE2	GLU	S2	8.685	9.744	18.858	1.00	0.00
ATOM	781	H	GLU	S2	7.814	5.595	14.923	1.00	0.00
ATOM	782	HA	GLU	S2	9.957	6.102	16.634	1.00	0.00
ATOM	783	1HB	GLU	S2	7.140	7.019	16.389	1.00	0.00
ATOM	784	2HB	GLU	S2	8.628	7.949	16.366	1.00	0.00
ATOM	785	1HG	GLU	S2	7.838	6.702	18.932	1.00	0.00
ATOM	786	2HG	GLU	S2	6.901	8.084	18.362	1.00	0.00
ATOM	787	N	PHE	S3	7.544	4.313	18.017	1.00	0.00
ATOM	788	CA	PHE	S3	7.251	3.415	19.128	1.00	0.00
ATOM	796	C	PHE	S3	8.046	2.121	19.015	1.00	0.00
ATOM	797	O	PHE	S3	8.447	1.555	20.019	1.00	0.00
ATOM	789	CB	PHE	S3	5.760	3.107	19.202	1.00	0.00
ATOM	790	CG	PHE	S3	5.088	3.714	20.401	1.00	0.00
ATOM	791	CD1	PHE	S3	5.276	5.050	20.714	1.00	0.00
ATOM	792	CD2	PHE	S3	4.275	2.945	21.222	1.00	0.00
ATOM	793	CE1	PHE	S3	4.667	5.609	21.821	1.00	0.00
ATOM	794	CE2	PHE	S3	3.666	3.499	22.331	1.00	0.00
ATOM	795	CZ	PHE	S3	3.862	4.833	22.631	1.00	0.00
ATOM	798	H	PHE	S3	6.863	4.463	17.321	1.00	0.00
ATOM	799	HA	PHE	S3	7.545	3.917	20.038	1.00	0.00
ATOM	800	1HB	PHE	S3	5.622	2.036	19.247	1.00	0.00
ATOM	801	2HB	PHE	S3	5.275	3.491	18.316	1.00	0.00
ATOM	802	HD1	PHE	S3	4.121	1.903	20.987	1.00	0.00
ATOM	803	HD2	PHE	S3	5.905	5.659	20.081	1.00	0.00
ATOM	804	HE1	PHE	S3	3.035	2.890	22.962	1.00	0.00
ATOM	805	HE2	PHE	S3	4.823	6.652	22.052	1.00	0.00
ATOM	806	HZ	PHE	S3	3.388	5.268	23.499	1.00	0.00
ATOM	807	N	GLU	S4	8.285	1.673	17.793	1.00	0.00
ATOM	808	CA	GLU	S4	9.052	0.455	17.554	1.00	0.00
ATOM	814	C	GLU	S4	10.489	0.659	18.036	1.00	0.00
ATOM	815	O	GLU	S4	11.188	-0.289	18.400	1.00	0.00
ATOM	809	CB	GLU	S4	9.006	0.098	16.056	1.00	0.00
ATOM	810	CG	GLU	S4	9.755	-1.176	15.684	1.00	0.00
ATOM	811	CD	GLU	S4	9.187	-1.854	14.448	1.00	0.00
ATOM	812	OE1	GLU	S4	8.240	-1.311	13.840	1.00	0.00
ATOM	813	OE2	GLU	S4	9.684	-2.940	14.071	1.00	0.00
ATOM	816	H	GLU	S4	7.944	2.179	17.022	1.00	0.00
ATOM	817	HA	GLU	S4	8.602	-0.343	18.125	1.00	0.00
ATOM	818	1HB	GLU	S4	9.422	0.920	15.485	1.00	0.00
ATOM	819	2HB	GLU	S4	7.972	-0.031	15.770	1.00	0.00
ATOM	820	1HG	GLU	S4	9.700	-1.868	16.513	1.00	0.00
ATOM	821	2HG	GLU	S4	10.787	-0.928	15.494	1.00	0.00
ATOM	822	N	THR	S5	10.904	1.918	18.057	1.00	0.00
ATOM	823	CA	THR	S5	12.233	2.287	18.508	1.00	0.00
ATOM	827	C	THR	S5	12.281	2.444	20.033	1.00	0.00
ATOM	828	O	THR	S5	13.274	2.093	20.670	1.00	0.00
ATOM	824	CB	THR	S5	12.694	3.602	17.839	1.00	0.00
ATOM	825	OG1	THR	S5	12.552	3.507	16.412	1.00	0.00
ATOM	826	CG2	THR	S5	14.144	3.915	18.184	1.00	0.00
ATOM	829	H	THR	S5	10.287	2.624	17.768	1.00	0.00
ATOM	830	HA	THR	S5	12.914	1.500	18.217	1.00	0.00
ATOM	831	HB	THR	S5	12.071	4.408	18.200	1.00	0.00
ATOM	832	HG1	THR	S5	11.608	3.529	16.177	1.00	0.00
ATOM	833	1HG2	THR	S5	14.237	4.962	18.430	1.00	0.00
ATOM	834	2HG2	THR	S5	14.773	3.687	17.336	1.00	0.00
ATOM	835	3HG2	THR	S5	14.450	3.318	19.030	1.00	0.00



ATOM	836	N	ARG	56	11.214	2.981	20.617	1.00	0.00
ATOM	837	CA	ARG	56	11.161	3.193	22.064	1.00	0.00
ATOM	845	C	ARG	56	10.515	2.011	22.799	1.00	0.00
ATOM	846	O	ARG	56	11.144	1.363	23.638	1.00	0.00
ATOM	838	CB	ARG	56	10.385	4.476	22.380	1.00	0.00
ATOM	839	CG	ARG	56	11.153	5.754	22.068	1.00	0.00
ATOM	840	CD	ARG	56	10.504	6.962	22.729	1.00	0.00
ATOM	841	NE	ARG	56	10.299	8.067	21.795	1.00	0.00
ATOM	842	CZ	ARG	56	10.322	9.350	22.144	1.00	0.00
ATOM	843	NH1	ARG	56	10.646	9.697	23.384	1.00	0.00
ATOM	844	NH2	ARG	56	10.043	10.290	21.248	1.00	0.00
ATOM	847	H	ARG	56	10.452	3.253	20.061	1.00	0.00
ATOM	848	HA	ARG	56	12.174	3.307	22.416	1.00	0.00
ATOM	849	1HB	ARG	56	10.135	4.480	23.432	1.00	0.00
ATOM	850	2HB	ARG	56	9.472	4.482	21.804	1.00	0.00
ATOM	851	1HG	ARG	56	11.166	5.903	20.999	1.00	0.00
ATOM	852	2HG	ARG	56	12.164	5.655	22.435	1.00	0.00
ATOM	853	1HD	ARG	56	11.137	7.304	23.535	1.00	0.00
ATOM	854	2HD	ARG	56	9.547	6.664	23.129	1.00	0.00
ATOM	855	HE	ARG	56	10.107	7.836	20.843	1.00	0.00
ATOM	856	1HH1	ARG	56	10.878	8.997	24.061	1.00	0.00
ATOM	857	2HH1	ARG	56	10.654	10.677	23.649	1.00	0.00
ATOM	858	1HH2	ARG	56	9.804	10.032	20.295	1.00	0.00
ATOM	859	2HH2	ARG	56	10.065	11.257	21.508	1.00	0.00
ATOM	860	N	PHE	57	9.258	1.748	22.473	1.00	0.00
ATOM	861	CA	PHE	57	8.480	0.665	23.074	1.00	0.00
ATOM	869	C	PHE	57	8.879	-0.696	22.490	1.00	0.00
ATOM	870	O	PHE	57	8.116	-1.320	21.757	1.00	0.00
ATOM	862	CB	PHE	57	6.988	0.929	22.823	1.00	0.00
ATOM	863	CG	PHE	57	6.042	0.194	23.734	1.00	0.00
ATOM	864	CD1	PHE	57	6.301	0.064	25.090	1.00	0.00
ATOM	865	CD2	PHE	57	4.876	-0.356	23.225	1.00	0.00
ATOM	866	CE1	PHE	57	5.412	-0.598	25.919	1.00	0.00
ATOM	867	CE2	PHE	57	3.987	-1.022	24.045	1.00	0.00
ATOM	868	CZ	PHE	57	4.253	-1.142	25.394	1.00	0.00
ATOM	871	H	PHE	57	8.827	2.304	21.790	1.00	0.00
ATOM	872	HA	PHE	57	8.668	0.663	24.137	1.00	0.00
ATOM	873	1HB	PHE	57	6.754	0.647	21.807	1.00	0.00
ATOM	874	2HB	PHE	57	6.798	1.985	22.943	1.00	0.00
ATOM	875	HD1	PHE	57	7.205	0.489	25.500	1.00	0.00
ATOM	876	HD2	PHE	57	4.665	-0.264	22.169	1.00	0.00
ATOM	877	HE1	PHE	57	5.624	-0.693	26.973	1.00	0.00
ATOM	878	HE2	PHE	57	3.083	-1.445	23.633	1.00	0.00
ATOM	879	HZ	PHE	57	3.553	-1.657	26.037	1.00	0.00
ATOM	880	N	ARG	58	10.082	-1.147	22.818	1.00	0.00
ATOM	881	CA	ARG	58	10.584	-2.426	22.322	1.00	0.00
ATOM	889	C	ARG	58	9.978	-3.600	23.088	1.00	0.00
ATOM	890	O	ARG	58	10.030	-4.745	22.632	1.00	0.00
ATOM	882	CB	ARG	58	12.108	-2.468	22.425	1.00	0.00
ATOM	883	CG	ARG	58	12.815	-2.122	21.125	1.00	0.00
ATOM	884	CD	ARG	58	14.273	-1.769	21.364	1.00	0.00
ATOM	885	NE	ARG	58	14.483	-0.323	21.432	1.00	0.00
ATOM	886	CZ	ARG	58	15.518	0.255	22.042	1.00	0.00
ATOM	887	NH1	ARG	58	16.443	-0.488	22.637	1.00	0.00
ATOM	888	NH2	ARG	58	15.624	1.578	22.047	1.00	0.00
ATOM	891	H	ARG	58	10.653	-0.602	23.402	1.00	0.00
ATOM	892	HA	ARG	58	10.303	-2.508	21.283	1.00	0.00
ATOM	893	1HB	ARG	58	12.410	-3.462	22.722	1.00	0.00
ATOM	894	2HB	ARG	58	12.426	-1.764	23.180	1.00	0.00
ATOM	895	1HG	ARG	58	12.318	-1.279	20.669	1.00	0.00
ATOM	896	2HG	ARG	58	12.766	-2.973	20.462	1.00	0.00
ATOM	897	1HD	ARG	58	14.864	-2.171	20.555	1.00	0.00
ATOM	898	2HD	ARG	58	14.589	-2.212	22.296	1.00	0.00
ATOM	899	HE	ARG	58	13.812	0.252	20.993	1.00	0.00
ATOM	900	1HH1	ARG	58	16.369	-1.487	22.628	1.00	0.00
ATOM	901	2HH1	ARG	58	17.223	-0.051	23.102	1.00	0.00
ATOM	902	1HH2	ARG	58	14.924	2.141	21.593	1.00	0.00
ATOM	903	2HH2	ARG	58	16.411	2.026	22.495	1.00	0.00
ATOM	904	N	ARG	59	9.407	-3.315	24.252	1.00	0.00
ATOM	905	CA	ARG	59	8.798	-4.349	25.089	1.00	0.00
ATOM	913	C	ARG	59	7.384	-4.696	24.612	1.00	0.00
ATOM	914	O	ARG	59	6.453	-4.783	25.410	1.00	0.00
ATOM	906	CB	ARG	59	8.765	-3.889	26.551	1.00	0.00



ATOM	907	CG	ARG	59	8.670	-5.028	27.557	1.00	0.00
ATOM	908	CD	ARG	59	7.714	-4.686	28.689	1.00	0.00
ATOM	909	NE	ARG	59	7.049	-5.869	29.233	1.00	0.00
ATOM	910	CZ	ARG	59	7.376	-6.444	30.391	1.00	0.00
ATOM	911	NH1	ARG	59	8.367	-5.955	31.125	1.00	0.00
ATOM	912	NH2	ARG	59	6.711	-7.512	30.810	1.00	0.00
ATOM	915	H	ARG	59	9.396	-2.386	24.561	1.00	0.00
ATOM	916	HA	ARG	59	9.413	-5.234	25.016	1.00	0.00
ATOM	917	1HB	ARG	59	7.913	-3.241	26.693	1.00	0.00
ATOM	918	2HB	ARG	59	9.666	-3.330	26.759	1.00	0.00
ATOM	919	1HG	ARG	59	9.651	-5.216	27.968	1.00	0.00
ATOM	920	2HG	ARG	59	8.312	-5.914	27.053	1.00	0.00
ATOM	921	1HD	ARG	59	6.964	-4.003	28.317	1.00	0.00
ATOM	922	2HD	ARG	59	8.271	-4.206	29.480	1.00	0.00
ATOM	923	HE	ARG	59	6.313	-6.256	28.703	1.00	0.00
ATOM	924	1HH1	ARG	59	8.876	-5.151	30.814	1.00	0.00
ATOM	925	2HH1	ARG	59	8.618	-6.397	31.998	1.00	0.00
ATOM	926	1HH2	ARG	59	5.958	-7.891	30.248	1.00	0.00
ATOM	927	2HH2	ARG	59	6.946	-7.945	31.682	1.00	0.00
ATOM	928	N	THR	60	7.229	-4.889	23.313	1.00	0.00
ATOM	929	CA	THR	60	5.933	-5.225	22.747	1.00	0.00
ATOM	933	C	THR	60	5.986	-6.564	22.010	1.00	0.00
ATOM	934	O	THR	60	4.964	-7.076	21.557	1.00	0.00
ATOM	930	CB	THR	60	5.433	-4.117	21.790	1.00	0.00
ATOM	931	OG1	THR	60	4.068	-4.350	21.434	1.00	0.00
ATOM	932	CG2	THR	60	6.287	-4.048	20.528	1.00	0.00
ATOM	935	H	THR	60	8.006	-4.801	22.719	1.00	0.00
ATOM	936	HA	THR	60	5.229	-5.306	23.563	1.00	0.00
ATOM	937	HB	THR	60	5.503	-3.168	22.304	1.00	0.00
ATOM	938	HG1	THR	60	3.898	-5.298	21.426	1.00	0.00
ATOM	939	1HG2	THR	60	6.638	-5.038	20.276	1.00	0.00
ATOM	940	2HG2	THR	60	7.133	-3.399	20.700	1.00	0.00
ATOM	941	3HG2	THR	60	5.695	-3.658	19.714	1.00	0.00
ATOM	942	N	PHE	61	7.185	-7.124	21.886	1.00	0.00
ATOM	943	CA	PHE	61	7.365	-8.395	21.192	1.00	0.00
ATOM	951	C	PHE	61	7.308	-9.571	22.161	1.00	0.00
ATOM	952	O	PHE	61	6.966	-10.688	21.778	1.00	0.00
ATOM	944	CB	PHE	61	8.699	-8.407	20.444	1.00	0.00
ATOM	945	CG	PHE	61	8.600	-7.917	19.026	1.00	0.00
ATOM	946	CD1	PHE	61	8.683	-6.564	18.739	1.00	0.00
ATOM	947	CD2	PHE	61	8.421	-8.810	17.982	1.00	0.00
ATOM	948	CE1	PHE	61	8.591	-6.110	17.438	1.00	0.00
ATOM	949	CE2	PHE	61	8.327	-8.363	16.677	1.00	0.00
ATOM	950	CZ	PHE	61	8.413	-7.011	16.405	1.00	0.00
ATOM	953	H	PHE	61	7.967	-6.670	22.262	1.00	0.00
ATOM	954	HA	PHE	61	6.562	-8.496	20.477	1.00	0.00
ATOM	955	1HB	PHE	61	9.081	-9.418	20.420	1.00	0.00
ATOM	956	2HB	PHE	61	9.401	-7.774	20.964	1.00	0.00
ATOM	957	HD1	PHE	61	8.823	-5.859	19.546	1.00	0.00
ATOM	958	HD2	PHE	61	8.354	-9.867	18.194	1.00	0.00
ATOM	959	HE1	PHE	61	8.657	-5.053	17.228	1.00	0.00
ATOM	960	HE2	PHE	61	8.188	-9.068	15.873	1.00	0.00
ATOM	961	HZ	PHE	61	8.339	-6.659	15.387	1.00	0.00
ATOM	962	N	SER	62	7.650	-9.310	23.411	1.00	0.00
ATOM	963	CA	SER	62	7.655	-10.341	24.441	1.00	0.00
ATOM	966	C	SER	62	6.260	-10.912	24.668	1.00	0.00
ATOM	967	O	SER	62	6.094	-12.114	24.885	1.00	0.00
ATOM	964	CB	SER	62	8.189	-9.739	25.740	1.00	0.00
ATOM	965	OG	SER	62	7.970	-8.333	25.763	1.00	0.00
ATOM	968	H	SER	62	7.920	-8.401	23.656	1.00	0.00
ATOM	969	HA	SER	62	8.310	-11.136	24.120	1.00	0.00
ATOM	970	1HB	SER	62	9.248	-9.930	25.817	1.00	0.00
ATOM	971	2HB	SER	62	7.678	-10.186	26.580	1.00	0.00
ATOM	972	HG	SER	62	7.131	-8.146	26.203	1.00	0.00
ATOM	973	N	ASP	63	5.267	-10.039	24.634	1.00	0.00
ATOM	974	CA	ASP	63	3.881	-10.427	24.858	1.00	0.00
ATOM	979	C	ASP	63	3.365	-11.323	23.748	1.00	0.00
ATOM	980	O	ASP	63	2.449	-12.120	23.957	1.00	0.00
ATOM	975	CB	ASP	63	3.005	-9.183	24.991	1.00	0.00
ATOM	976	CG	ASP	63	3.297	-8.410	26.263	1.00	0.00
ATOM	977	OD1	ASP	63	4.468	-8.005	26.460	1.00	0.00
ATOM	978	OD2	ASP	63	2.369	-8.217	27.074	1.00	0.00
ATOM	981	H	ASP	63	5.472	-9.093	24.475	1.00	0.00



ATOM	982	HA	ASP	63	3.843	-10.983	25.779	1.00	0.00
ATOM	983	1HB	ASP	63	1.969	-9.481	24.997	1.00	0.00
ATOM	984	2HB	ASP	63	3.185	-8.534	24.147	1.00	0.00
ATOM	985	N	LEU	64	3.967	-11.208	22.579	1.00	0.00
ATOM	986	CA	LEU	64	3.584	-12.029	21.439	1.00	0.00
ATOM	991	C	LEU	64	3.927	-13.481	21.742	1.00	0.00
ATOM	992	O	LEU	64	3.150	-14.399	21.466	1.00	0.00
ATOM	987	CB	LEU	64	4.324	-11.581	20.173	1.00	0.00
ATOM	988	CG	LEU	64	3.731	-10.384	19.414	1.00	0.00
ATOM	989	CO1	LEU	64	2.803	-9.553	20.294	1.00	0.00
ATOM	990	CD2	LEU	64	4.854	-9.520	18.869	1.00	0.00
ATOM	993	H	LEU	64	4.699	-10.565	22.483	1.00	0.00
ATOM	994	HA	LEU	64	2.518	-11.935	21.289	1.00	0.00
ATOM	995	1HB	LEU	64	4.361	-12.420	19.494	1.00	0.00
ATOM	996	2HB	LEU	64	5.334	-11.327	20.453	1.00	0.00
ATOM	997	HG	LEU	64	3.157	-10.748	18.576	1.00	0.00
ATOM	998	1HD1	LEU	64	3.229	-8.571	20.439	1.00	0.00
ATOM	999	2HD1	LEU	64	2.683	-10.037	21.251	1.00	0.00
ATOM	1000	3HD1	LEU	64	1.840	-9.460	19.814	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.698	-10.144	18.616	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.151	-8.800	19.618	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.513	-9.000	17.984	1.00	0.00
ATOM	1004	N	ALA	65	5.093	-13.666	22.345	1.00	0.00
ATOM	1005	CA	ALA	65	5.560	-14.990	22.721	1.00	0.00
ATOM	1007	C	ALA	65	4.835	-15.464	23.968	1.00	0.00
ATOM	1008	O	ALA	65	4.356	-16.592	24.021	1.00	0.00
ATOM	1006	CB	ALA	65	7.064	-14.981	22.945	1.00	0.00
ATOM	1009	H	ALA	65	5.647	-12.884	22.561	1.00	0.00
ATOM	1010	HA	ALA	65	5.341	-15.667	21.906	1.00	0.00
ATOM	1011	1HB	ALA	65	7.568	-14.815	22.004	1.00	0.00
ATOM	1012	2HB	ALA	65	7.372	-15.932	23.354	1.00	0.00
ATOM	1013	3HB	ALA	65	7.322	-14.192	23.636	1.00	0.00
ATOM	1014	N	ALA	66	4.751	-14.582	24.964	1.00	0.00
ATOM	1015	CA	ALA	66	4.075	-14.890	26.222	1.00	0.00
ATOM	1017	C	ALA	66	2.681	-15.462	25.974	1.00	0.00
ATOM	1018	O	ALA	66	2.273	-16.437	26.611	1.00	0.00
ATOM	1016	CB	ALA	66	3.992	-13.642	27.084	1.00	0.00
ATOM	1019	H	ALA	66	5.155	-13.689	24.845	1.00	0.00
ATOM	1020	HA	ALA	66	4.667	-15.624	26.752	1.00	0.00
ATOM	1021	1HB	ALA	66	3.672	-13.912	28.078	1.00	0.00
ATOM	1022	2HB	ALA	66	3.282	-12.954	26.650	1.00	0.00
ATOM	1023	3HB	ALA	66	4.964	-13.172	27.133	1.00	0.00
ATOM	1024	N	GLN	67	1.965	-14.856	25.036	1.00	0.00
ATOM	1025	CA	GLN	67	0.621	-15.298	24.684	1.00	0.00
ATOM	1031	C	GLN	67	0.629	-16.669	24.013	1.00	0.00
ATOM	1032	O	GLN	67	-0.017	-17.607	24.484	1.00	0.00
ATOM	1026	CB	GLN	67	-0.032	-14.305	23.731	1.00	0.00
ATOM	1027	CG	GLN	67	-0.719	-13.146	24.416	1.00	0.00
ATOM	1028	CD	GLN	67	-1.119	-12.076	23.428	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.281	-11.969	23.047	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.150	-11.285	22.994	1.00	0.00
ATOM	1033	H	GLN	67	2.356	-14.085	24.562	1.00	0.00
ATOM	1034	HA	GLN	67	0.037	-15.352	25.590	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.767	-14.828	23.137	1.00	0.00
ATOM	1036	2HB	GLN	67	0.726	-13.903	23.074	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.044	-12.717	25.141	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.606	-13.509	24.916	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.760	-11.437	23.334	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.382	-10.582	22.355	1.00	0.00
ATOM	1041	N	LEU	68	1.332	-16.762	22.889	1.00	0.00
ATOM	1042	CA	LEU	68	1.390	-17.998	22.110	1.00	0.00
ATOM	1047	C	LEU	68	2.380	-19.020	22.670	1.00	0.00
ATOM	1048	O	LEU	68	2.752	-19.967	21.976	1.00	0.00
ATOM	1043	CB	LEU	68	1.744	-17.681	20.654	1.00	0.00
ATOM	1044	CG	LEU	68	0.581	-17.196	19.777	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.754	-17.708	20.303	1.00	0.00
ATOM	1046	CD2	LEU	68	0.575	-15.678	19.691	1.00	0.00
ATOM	1049	H	LEU	68	1.803	-15.965	22.552	1.00	0.00
ATOM	1050	HA	LEU	68	0.405	-18.437	22.130	1.00	0.00
ATOM	1051	1HB	LEU	68	2.154	-18.573	20.205	1.00	0.00
ATOM	1052	2HB	LEU	68	2.507	-16.917	20.653	1.00	0.00
ATOM	1053	HG	LEU	68	0.711	-17.585	18.777	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.645	-18.734	20.623	1.00	0.00



ATOM	1055	2HD1	LEU	68	-1.495	-17.653	19.519	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.068	-17.102	21.139	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.332	-15.349	19.208	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.429	-15.346	19.117	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.626	-15.258	20.685	1.00	0.00
ATOM	1060	N	HIS	69	2.805	-18.840	23.911	1.00	0.00
ATOM	1061	CA	HIS	69	3.749	-19.768	24.522	1.00	0.00
ATOM	1068	C	HIS	69	3.031	-21.034	24.987	1.00	0.00
ATOM	1069	O	HIS	69	3.632	-22.104	25.070	1.00	0.00
ATOM	1062	CB	HIS	69	4.512	-19.083	25.680	1.00	0.00
ATOM	1063	CG	HIS	69	4.081	-19.469	27.070	1.00	0.00
ATOM	1064	ND1	HIS	69	3.096	-18.799	27.769	1.00	0.00
ATOM	1065	CD2	HIS	69	4.514	-20.454	27.894	1.00	0.00
ATOM	1066	CE1	HIS	69	2.945	-19.357	28.956	1.00	0.00
ATOM	1067	NE2	HIS	69	3.792	-20.364	29.056	1.00	0.00
ATOM	1070	H	HIS	69	2.492	-18.062	24.420	1.00	0.00
ATOM	1071	HA	HIS	69	4.460	-20.048	23.760	1.00	0.00
ATOM	1072	1HB	HIS	69	4.393	-18.014	25.584	1.00	0.00
ATOM	1073	2HB	HIS	69	5.559	-19.325	25.592	1.00	0.00
ATOM	1074	HD1	HIS	69	2.586	-18.019	27.445	1.00	0.00
ATOM	1075	HD2	HIS	69	5.287	-21.178	27.673	1.00	0.00
ATOM	1076	HE1	HIS	69	2.244	-19.046	29.717	1.00	0.00
ATOM	1077	HE2	HIS	69	3.767	-21.051	29.765	1.00	0.00
ATOM	1078	N	VAL	70	1.747	-20.903	25.290	1.00	0.00
ATOM	1079	CA	VAL	70	0.957	-22.041	25.741	1.00	0.00
ATOM	1083	C	VAL	70	0.244	-22.728	24.570	1.00	0.00
ATOM	1084	O	VAL	70	0.459	-23.911	24.314	1.00	0.00
ATOM	1080	CB	VAL	70	-0.057	-21.635	26.843	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.907	-20.445	26.416	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.936	-22.816	27.237	1.00	0.00
ATOM	1085	H	VAL	70	1.323	-20.026	25.202	1.00	0.00
ATOM	1086	HA	VAL	70	1.646	-22.753	26.175	1.00	0.00
ATOM	1087	HB	VAL	70	0.506	-21.337	27.717	1.00	0.00
ATOM	1088	1HG1	VAL	70	-1.471	-20.704	25.533	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.264	-19.604	26.300	1.00	0.00
ATOM	1090	3HG1	VAL	70	-1.587	-20.182	27.213	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.772	-23.632	26.548	1.00	0.00
ATOM	1092	2HG2	VAL	70	-1.974	-22.518	27.203	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.685	-23.132	28.238	1.00	0.00
ATOM	1094	N	THR	71	-0.611	-21.983	23.873	1.00	0.00
ATOM	1095	CA	THR	71	-1.366	-22.515	22.750	1.00	0.00
ATOM	1099	C	THR	71	-2.160	-21.399	22.070	1.00	0.00
ATOM	1100	O	THR	71	-2.609	-20.458	22.729	1.00	0.00
ATOM	1096	CB	THR	71	-2.340	-23.630	23.218	1.00	0.00
ATOM	1097	CG1	THR	71	-3.090	-24.153	22.112	1.00	0.00
ATOM	1098	CG2	THR	71	-3.304	-23.111	24.279	1.00	0.00
ATOM	1101	H	THR	71	-0.747	-21.048	24.130	1.00	0.00
ATOM	1102	HA	THR	71	-0.669	-22.939	22.041	1.00	0.00
ATOM	1103	HB	THR	71	-1.757	-24.431	23.651	1.00	0.00
ATOM	1104	HG1	THR	71	-3.777	-23.521	21.864	1.00	0.00
ATOM	1105	1HG2	THR	71	-3.805	-23.944	24.748	1.00	0.00
ATOM	1106	2HG2	THR	71	-4.035	-22.465	23.815	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.753	-22.555	25.024	1.00	0.00
ATOM	1108	N	PRO	72	-2.344	-21.481	20.743	1.00	0.00
ATOM	1109	CA	PRO	72	-3.094	-20.483	19.986	1.00	0.00
ATOM	1113	C	PRO	72	-4.601	-20.664	20.159	1.00	0.00
ATOM	1114	O	PRO	72	-5.049	-21.596	20.831	1.00	0.00
ATOM	1110	CB	PRO	72	-2.693	-20.748	18.524	1.00	0.00
ATOM	1111	CG	PRO	72	-1.670	-21.839	18.561	1.00	0.00
ATOM	1112	CD	PRO	72	-1.844	-22.547	19.871	1.00	0.00
ATOM	1115	HA	PRO	72	-2.815	-19.478	20.266	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.285	-19.844	18.097	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.565	-21.050	17.963	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.679	-21.414	18.493	1.00	0.00
ATOM	1119	2HG	PRO	72	-1.838	-22.525	17.743	1.00	0.00
ATOM	1120	1HD	PRO	72	-0.897	-22.924	20.228	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.565	-23.346	19.781	1.00	0.00
ATOM	1122	N	GLY	73	-5.382	-19.785	19.544	1.00	0.00
ATOM	1123	CA	GLY	73	-6.827	-19.889	19.642	1.00	0.00
ATOM	1124	C	GLY	73	-7.425	-18.904	20.627	1.00	0.00
ATOM	1125	O	GLY	73	-8.005	-17.892	20.226	1.00	0.00
ATOM	1126	H	GLY	73	-4.977	-19.065	19.011	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.082	-20.892	19.953	1.00	0.00



ATOM	1128	2HA	GLY	73	-7.255	-19.709	18.668	1.00	0.00
ATOM	1129	N	SER	74	-7.293	-19.202	21.916	1.00	0.00
ATOM	1130	CA	SER	74	-7.831	-18.352	22.981	1.00	0.00
ATOM	1133	C	SER	74	-7.003	-17.075	23.162	1.00	0.00
ATOM	1134	O	SER	74	-6.630	-16.710	24.277	1.00	0.00
ATOM	1131	CB	SER	74	-7.869	-19.148	24.285	1.00	0.00
ATOM	1132	OG	SER	74	-7.768	-20.543	24.028	1.00	0.00
ATOM	1135	H	SER	74	-6.827	-20.029	22.168	1.00	0.00
ATOM	1136	HA	SER	74	-8.839	-18.073	22.711	1.00	0.00
ATOM	1137	1HB	SER	74	-8.802	-18.957	24.796	1.00	0.00
ATOM	1138	2HB	SER	74	-7.042	-18.847	24.913	1.00	0.00
ATOM	1139	HG	SER	74	-7.446	-20.991	24.817	1.00	0.00
ATOM	1140	N	ALA	75	-6.729	-16.396	22.062	1.00	0.00
ATOM	1141	CA	ALA	75	-5.959	-15.168	22.095	1.00	0.00
ATOM	1143	C	ALA	75	-6.877	-13.957	22.137	1.00	0.00
ATOM	1144	O	ALA	75	-6.481	-12.884	22.588	1.00	0.00
ATOM	1142	CB	ALA	75	-5.038	-15.094	20.889	1.00	0.00
ATOM	1145	H	ALA	75	-7.059	-16.734	21.199	1.00	0.00
ATOM	1146	HA	ALA	75	-5.351	-15.177	22.983	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.957	-16.071	20.437	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.060	-14.759	21.203	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.444	-14.397	20.170	1.00	0.00
ATOM	1150	N	GLN	76	-8.104	-14.134	21.652	1.00	0.00
ATOM	1151	CA	GLN	76	-9.076	-13.046	21.614	1.00	0.00
ATOM	1157	C	GLN	76	-9.384	-12.517	22.999	1.00	0.00
ATOM	1158	O	GLN	76	-9.470	-11.311	23.190	1.00	0.00
ATOM	1152	CB	GLN	76	-10.364	-13.469	20.901	1.00	0.00
ATOM	1153	CG	GLN	76	-10.868	-14.848	21.269	1.00	0.00
ATOM	1154	CD	GLN	76	-12.119	-15.227	20.505	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.208	-16.315	19.937	1.00	0.00
ATOM	1156	NE2	GLN	76	-13.094	-14.333	20.486	1.00	0.00
ATOM	1159	H	GLN	76	-8.355	-15.012	21.298	1.00	0.00
ATOM	1160	HA	GLN	76	-8.626	-12.244	21.047	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.191	-13.447	19.835	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.139	-12.756	21.140	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.086	-14.862	22.318	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.097	-15.570	21.049	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.953	-13.479	20.966	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.913	-14.550	19.997	1.00	0.00
ATOM	1167	N	GLN	77	-9.536	-13.413	23.963	1.00	0.00
ATOM	1168	CA	GLN	77	-9.828	-13.007	25.329	1.00	0.00
ATOM	1174	C	GLN	77	-8.706	-12.135	25.879	1.00	0.00
ATOM	1175	O	GLN	77	-8.956	-11.068	26.439	1.00	0.00
ATOM	1169	CB	GLN	77	-10.035	-14.234	26.216	1.00	0.00
ATOM	1170	CG	GLN	77	-10.951	-13.983	27.400	1.00	0.00
ATOM	1171	CD	GLN	77	-10.334	-14.430	28.707	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.571	-13.694	29.327	1.00	0.00
ATOM	1173	NE2	GLN	77	-10.652	-15.644	29.129	1.00	0.00
ATOM	1176	H	GLN	77	-9.449	-14.367	23.751	1.00	0.00
ATOM	1177	HA	GLN	77	-10.735	-12.420	25.310	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.076	-14.556	26.594	1.00	0.00
ATOM	1179	2HB	GLN	77	-10.463	-15.028	25.620	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.873	-14.525	27.248	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.160	-12.926	27.459	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.267	-16.185	28.577	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.265	-15.957	29.972	1.00	0.00
ATOM	1184	N	ARG	78	-7.472	-12.579	25.689	1.00	0.00
ATOM	1185	CA	ARG	78	-6.313	-11.824	26.148	1.00	0.00
ATOM	1193	C	ARG	78	-6.246	-10.480	25.430	1.00	0.00
ATOM	1194	O	ARG	78	-5.978	-9.447	26.045	1.00	0.00
ATOM	1186	CB	ARG	78	-5.027	-12.614	25.903	1.00	0.00
ATOM	1187	CG	ARG	78	-4.758	-13.677	26.955	1.00	0.00
ATOM	1188	CD	ARG	78	-4.029	-14.871	26.362	1.00	0.00
ATOM	1189	NE	ARG	78	-4.270	-16.098	27.121	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.441	-17.140	27.135	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.320	-17.108	26.421	1.00	0.00
ATOM	1192	NH2	ARG	78	-3.740	-18.214	27.855	1.00	0.00
ATOM	1195	H	ARG	78	-7.337	-13.423	25.216	1.00	0.00
ATOM	1196	HA	ARG	78	-6.428	-11.648	27.207	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.194	-11.928	25.893	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.094	-13.100	24.940	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.700	-14.008	27.367	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.150	-13.249	27.737	1.00	0.00



ATOM	1201	1HD	ARG	78	-2.968	-14.663	26.359	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.369	-15.016	25.348	1.00	0.00
ATOM	1203	HE	ARG	78	-5.097	-16.143	27.656	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.098	-16.303	25.872	1.00	0.00
ATOM	1205	2HH1	ARG	78	-1.688	-17.887	26.433	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.598	-18.238	28.394	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.121	-19.000	27.875	1.00	0.00
ATOM	1208	N	PHE	79	-6.511	-10.505	24.126	1.00	0.00
ATOM	1209	CA	PHE	79	-6.497	-9.293	23.322	1.00	0.00
ATOM	1217	C	PHE	79	-7.575	-8.328	23.802	1.00	0.00
ATOM	1218	O	PHE	79	-7.294	-7.159	24.061	1.00	0.00
ATOM	1210	CB	PHE	79	-6.703	-9.620	21.842	1.00	0.00
ATOM	1211	CG	PHE	79	-6.090	-8.607	20.917	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.714	-8.485	20.816	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.891	-7.775	20.151	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.148	-7.552	19.968	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.332	-6.841	19.300	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.958	-6.729	19.210	1.00	0.00
ATOM	1219	H	PHE	79	-6.728	-11.361	23.697	1.00	0.00
ATOM	1220	HA	PHE	79	-5.530	-8.825	23.445	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.762	-9.665	21.634	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.258	-10.580	21.625	1.00	0.00
ATOM	1223	HD1	PHE	79	-4.080	-9.129	21.408	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.967	-7.863	20.221	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.074	-7.467	19.898	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.967	-6.199	18.709	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.517	-5.999	18.547	1.00	0.00
ATOM	1228	N	THR	80	-8.810	-8.819	23.920	1.00	0.00
ATOM	1229	CA	THR	80	-9.919	-7.980	24.374	1.00	0.00
ATOM	1233	C	THR	80	-9.616	-7.341	25.733	1.00	0.00
ATOM	1234	O	THR	80	-10.035	-6.216	25.997	1.00	0.00
ATOM	1230	CB	THR	80	-11.249	-8.762	24.463	1.00	0.00
ATOM	1231	OG1	THR	80	-11.049	-10.052	25.050	1.00	0.00
ATOM	1232	CG2	THR	80	-11.874	-8.918	23.086	1.00	0.00
ATOM	1235	H	THR	80	-8.981	-9.767	23.687	1.00	0.00
ATOM	1236	HA	THR	80	-10.045	-7.190	23.647	1.00	0.00
ATOM	1237	HB	THR	80	-11.932	-8.205	25.084	1.00	0.00
ATOM	1238	HG1	THR	80	-10.144	-10.125	25.374	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.208	-7.955	22.730	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.716	-9.590	23.148	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.141	-9.321	22.402	1.00	0.00
ATOM	1242	N	GLN	81	-8.868	-8.057	26.578	1.00	0.00
ATOM	1243	CA	GLN	81	-8.496	-7.547	27.898	1.00	0.00
ATOM	1249	C	GLN	81	-7.695	-6.266	27.769	1.00	0.00
ATOM	1250	O	GLN	81	-8.132	-5.198	28.193	1.00	0.00
ATOM	1244	CB	GLN	81	-7.653	-8.574	28.656	1.00	0.00
ATOM	1245	CG	GLN	81	-8.464	-9.690	29.268	1.00	0.00
ATOM	1246	CD	GLN	81	-8.848	-9.421	30.714	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.614	-10.177	31.312	1.00	0.00
ATOM	1248	NE2	GLN	81	-8.317	-8.353	31.293	1.00	0.00
ATOM	1251	H	GLN	81	-8.548	-8.943	26.303	1.00	0.00
ATOM	1252	HA	GLN	81	-9.399	-7.349	28.453	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.118	-8.070	29.448	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.939	-9.009	27.974	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.887	-10.602	29.227	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.362	-9.806	28.686	1.00	0.00
ATOM	1257	1HE2	GLN	81	-7.705	-7.790	30.768	1.00	0.00
ATOM	1258	2HE2	GLN	81	-8.555	-8.162	32.223	1.00	0.00
ATOM	1259	N	VAL	82	-6.517	-6.400	27.181	1.00	0.00
ATOM	1260	CA	VAL	82	-5.613	-5.271	26.989	1.00	0.00
ATOM	1264	C	VAL	82	-6.266	-4.162	26.171	1.00	0.00
ATOM	1265	O	VAL	82	-5.991	-2.988	26.388	1.00	0.00
ATOM	1261	CB	VAL	82	-4.289	-5.701	26.323	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.661	-6.841	27.100	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.487	-6.098	24.867	1.00	0.00
ATOM	1266	H	VAL	82	-6.243	-7.293	26.878	1.00	0.00
ATOM	1267	HA	VAL	82	-5.374	-4.873	27.971	1.00	0.00
ATOM	1268	HB	VAL	82	-3.611	-4.863	26.354	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.429	-7.538	27.400	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.167	-6.449	27.977	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.940	-7.347	26.476	1.00	0.00
ATOM	1272	1HG2	VAL	82	-4.205	-7.132	24.733	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.874	-5.472	24.235	1.00	0.00



ATOM	1274	3HG2	VAL	82	-5.526	-5.971	24.599	1.00	0.00
ATOM	1275	N	SER	83	-7.144	-4.533	25.247	1.00	0.00
ATOM	1276	CA	SER	83	-7.832	-3.549	24.428	1.00	0.00
ATOM	1279	C	SER	83	-8.753	-2.697	25.295	1.00	0.00
ATOM	1280	O	SER	83	-8.789	-1.474	25.165	1.00	0.00
ATOM	1277	CB	SER	83	-8.631	-4.234	23.319	1.00	0.00
ATOM	1278	OG	SER	83	-7.792	-5.046	22.516	1.00	0.00
ATOM	1281	H	SER	83	-7.337	-5.486	25.124	1.00	0.00
ATOM	1282	HA	SER	83	-7.085	-2.908	23.981	1.00	0.00
ATOM	1283	1HB	SER	83	-9.091	-3.484	22.692	1.00	0.00
ATOM	1284	2HB	SER	83	-9.397	-4.854	23.759	1.00	0.00
ATOM	1285	HG	SER	83	-7.408	-5.747	23.058	1.00	0.00
ATOM	1286	N	ASP	84	-9.474	-3.353	26.199	1.00	0.00
ATOM	1287	CA	ASP	84	-10.378	-2.654	27.103	1.00	0.00
ATOM	1292	C	ASP	84	-9.578	-1.869	28.133	1.00	0.00
ATOM	1293	O	ASP	84	-9.976	-0.784	28.554	1.00	0.00
ATOM	1288	CB	ASP	84	-11.319	-3.640	27.799	1.00	0.00
ATOM	1289	CG	ASP	84	-12.767	-3.187	27.762	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.283	-2.904	26.658	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.396	-3.118	28.838	1.00	0.00
ATOM	1294	H	ASP	84	-9.386	-4.331	26.269	1.00	0.00
ATOM	1295	HA	ASP	84	-10.964	-1.962	26.516	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.020	-3.745	28.832	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.249	-4.601	27.310	1.00	0.00
ATOM	1298	N	GLU	85	-8.431	-2.418	28.517	1.00	0.00
ATOM	1299	CA	GLU	85	-7.552	-1.770	29.481	1.00	0.00
ATOM	1305	C	GLU	85	-6.880	-0.550	28.851	1.00	0.00
ATOM	1306	O	GLU	85	-6.561	0.420	29.535	1.00	0.00
ATOM	1300	CB	GLU	85	-6.492	-2.758	29.984	1.00	0.00
ATOM	1301	CG	GLU	85	-6.960	-3.620	31.149	1.00	0.00
ATOM	1302	CD	GLU	85	-6.404	-5.033	31.108	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.513	-5.306	30.281	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.860	-5.878	31.915	1.00	0.00
ATOM	1307	H	GLU	85	-8.163	-3.283	28.133	1.00	0.00
ATOM	1308	HA	GLU	85	-8.156	-1.444	30.314	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.622	-2.203	30.302	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.212	-3.411	29.170	1.00	0.00
ATOM	1311	1HG	GLU	85	-8.039	-3.673	31.126	1.00	0.00
ATOM	1312	2HG	GLU	85	-6.645	-3.154	32.071	1.00	0.00
ATOM	1313	N	LEU	86	-6.671	-0.612	27.539	1.00	0.00
ATOM	1314	CA	LEU	86	-6.037	0.476	26.798	1.00	0.00
ATOM	1319	C	LEU	86	-7.046	1.575	26.474	1.00	0.00
ATOM	1320	O	LEU	86	-6.707	2.756	26.449	1.00	0.00
ATOM	1315	CB	LEU	86	-5.416	-0.057	25.500	1.00	0.00
ATOM	1316	CG	LEU	86	-3.885	-0.092	25.468	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.387	-1.520	25.301	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.353	0.782	24.345	1.00	0.00
ATOM	1321	H	LEU	86	-6.947	-1.419	27.054	1.00	0.00
ATOM	1322	HA	LEU	86	-5.257	0.890	27.418	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.755	0.561	24.682	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.779	-1.063	25.340	1.00	0.00
ATOM	1325	HG	LEU	86	-3.502	0.290	26.404	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.459	-1.643	25.840	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.224	-1.723	24.253	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.123	-2.207	25.691	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.809	0.488	23.412	1.00	0.00
ATOM	1330	2HD2	LEU	86	-2.279	0.664	24.276	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.587	1.816	24.551	1.00	0.00
ATOM	1332	N	PHE	87	-8.286	1.179	26.215	1.00	0.00
ATOM	1333	CA	PHE	87	-9.340	2.131	25.879	1.00	0.00
ATOM	1341	C	PHE	87	-10.027	2.658	27.138	1.00	0.00
ATOM	1342	O	PHE	87	-10.841	3.579	27.065	1.00	0.00
ATOM	1334	CB	PHE	87	-10.366	1.463	24.953	1.00	0.00
ATOM	1335	CG	PHE	87	-11.434	2.394	24.442	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.138	3.353	23.488	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.732	2.310	24.921	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.115	4.213	23.022	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.714	3.166	24.460	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.405	4.120	23.509	1.00	0.00
ATOM	1343	H	PHE	87	-8.497	0.219	26.240	1.00	0.00
ATOM	1344	HA	PHE	87	-8.885	2.959	25.358	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.854	0.663	25.491	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.852	1.052	24.099	1.00	0.00



ATOM	1347	HD1	PHE	87	-10.131	3.427	23.105	1.00	0.00
ATOM	1348	HD2	PHE	87	-12.975	1.565	25.665	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.871	4.956	22.278	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.720	3.092	24.842	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.169	4.791	23.147	1.00	0.00
ATOM	1352	N	GLN	88	-9.699	2.056	28.280	1.00	0.00
ATOM	1353	CA	GLN	88	-10.282	2.431	29.570	1.00	0.00
ATOM	1359	C	GLN	88	-10.347	3.945	29.764	1.00	0.00
ATOM	1360	O	GLN	88	-11.368	4.474	30.203	1.00	0.00
ATOM	1354	CB	GLN	88	-9.493	1.794	30.714	1.00	0.00
ATOM	1355	CG	GLN	88	-10.374	1.295	31.848	1.00	0.00
ATOM	1356	CD	GLN	88	-9.683	0.270	32.725	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.204	0.591	33.813	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.631	-0.968	32.258	1.00	0.00
ATOM	1361	H	GLN	88	-9.050	1.322	28.253	1.00	0.00
ATOM	1362	HA	GLN	88	-11.289	2.043	29.592	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.807	2.526	31.115	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.930	0.958	30.327	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.260	0.843	31.425	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.660	2.135	32.461	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.034	-1.149	31.382	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.201	-1.658	32.811	1.00	0.00
ATOM	1369	N	GLY	89	-9.267	4.641	29.438	1.00	0.00
ATOM	1370	CA	GLY	89	-9.266	6.079	29.596	1.00	0.00
ATOM	1371	C	GLY	89	-8.058	6.746	28.977	1.00	0.00
ATOM	1372	O	GLY	89	-7.263	7.368	29.679	1.00	0.00
ATOM	1373	H	GLY	89	-8.476	4.180	29.088	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.288	6.310	30.651	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.156	6.479	29.135	1.00	0.00
ATOM	1376	N	GLY	90	-7.920	6.639	27.663	1.00	0.00
ATOM	1377	CA	GLY	90	-6.797	7.274	27.005	1.00	0.00
ATOM	1378	C	GLY	90	-6.462	6.713	25.632	1.00	0.00
ATOM	1379	O	GLY	90	-5.315	6.337	25.394	1.00	0.00
ATOM	1380	H	GLY	90	-8.585	6.143	27.141	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.928	7.169	27.640	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.014	8.326	26.899	1.00	0.00
ATOM	1383	N	PRO	91	-7.416	6.680	24.679	1.00	0.00
ATOM	1384	CA	PRO	91	-7.147	6.194	23.326	1.00	0.00
ATOM	1388	C	PRO	91	-6.470	7.261	22.471	1.00	0.00
ATOM	1389	O	PRO	91	-6.770	7.413	21.290	1.00	0.00
ATOM	1385	CB	PRO	91	-8.528	5.885	22.755	1.00	0.00
ATOM	1386	CG	PRO	91	-9.524	6.575	23.621	1.00	0.00
ATOM	1387	CD	PRO	91	-8.805	7.140	24.825	1.00	0.00
ATOM	1390	HA	PRO	91	-6.544	5.298	23.336	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.683	4.818	22.748	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.582	6.269	21.747	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.287	5.875	23.928	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.974	7.370	23.058	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.242	6.753	25.735	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.850	8.218	24.817	1.00	0.00
ATOM	1397	N	ASN	92	-5.574	8.009	23.092	1.00	0.00
ATOM	1398	CA	ASN	92	-4.864	9.088	22.418	1.00	0.00
ATOM	1403	C	ASN	92	-3.900	8.567	21.363	1.00	0.00
ATOM	1404	O	ASN	92	-3.542	7.389	21.367	1.00	0.00
ATOM	1399	CB	ASN	92	-4.112	9.943	23.433	1.00	0.00
ATOM	1400	CG	ASN	92	-4.243	11.421	23.132	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.024	11.850	22.002	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.601	12.205	24.138	1.00	0.00
ATOM	1405	H	ASN	92	-5.397	7.837	24.039	1.00	0.00
ATOM	1406	HA	ASN	92	-5.602	9.705	21.928	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.064	9.680	23.411	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.509	9.756	24.419	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.761	11.796	25.013	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.688	13.167	23.966	1.00	0.00
ATOM	1411	N	TRP	93	-3.482	9.462	20.466	1.00	0.00
ATOM	1412	CA	TRP	93	-2.554	9.121	19.387	1.00	0.00
ATOM	1423	C	TRP	93	-1.290	8.458	19.929	1.00	0.00
ATOM	1424	O	TRP	93	-0.653	7.666	19.237	1.00	0.00
ATOM	1413	CB	TRP	93	-2.170	10.363	18.574	1.00	0.00
ATOM	1414	CG	TRP	93	-3.314	11.293	18.283	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.490	12.551	18.786	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.433	11.050	17.416	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.642	13.104	18.284	1.00	0.00



ATOM	1418	CE2 TRP	93	-5.239	12.204	17.447	1.00	0.00
ATOM	1419	CE3 TRP	93	-4.835	9.974	16.618	1.00	0.00
ATOM	1420	CZ2 TRP	93	-6.417	12.312	16.715	1.00	0.00
ATOM	1421	CZ3 TRP	93	-6.008	10.087	15.890	1.00	0.00
ATOM	1422	CH2 TRP	93	-6.784	11.248	15.945	1.00	0.00
ATOM	1425	H TRP	93	-3.812	10.388	20.533	1.00	0.00
ATOM	1426	HA TRP	93	-3.055	8.422	18.734	1.00	0.00
ATOM	1427	1HB TRP	93	-1.750	10.045	17.629	1.00	0.00
ATOM	1428	2HB TRP	93	-1.424	10.921	19.119	1.00	0.00
ATOM	1429	HD1 TRP	93	-2.811	13.030	19.474	1.00	0.00
ATOM	1430	HE1 TRP	93	-4.986	14.006	18.491	1.00	0.00
ATOM	1431	HE3 TRP	93	-4.249	9.070	16.562	1.00	0.00
ATOM	1432	HZ2 TRP	93	-7.029	13.203	16.744	1.00	0.00
ATOM	1433	HZ3 TRP	93	-6.338	9.272	15.265	1.00	0.00
ATOM	1434	HH2 TRP	93	-7.692	11.292	15.360	1.00	0.00
ATOM	1435	N GLY	94	-0.941	8.769	21.177	1.00	0.00
ATOM	1436	CA GLY	94	0.226	8.176	21.788	1.00	0.00
ATOM	1437	C GLY	94	0.065	6.676	21.931	1.00	0.00
ATOM	1438	O GLY	94	0.985	5.911	21.661	1.00	0.00
ATOM	1439	H GLY	94	-1.493	9.394	21.688	1.00	0.00
ATOM	1440	1HA GLY	94	0.371	8.609	22.767	1.00	0.00
ATOM	1441	2HA GLY	94	1.091	8.389	21.176	1.00	0.00
ATOM	1442	N ARG	95	-1.126	6.262	22.344	1.00	0.00
ATOM	1443	CA ARG	95	-1.432	4.850	22.510	1.00	0.00
ATOM	1451	C ARG	95	-1.916	4.244	21.201	1.00	0.00
ATOM	1452	O ARG	95	-1.828	3.034	21.007	1.00	0.00
ATOM	1444	CB ARG	95	-2.483	4.655	23.602	1.00	0.00
ATOM	1445	CG ARG	95	-1.999	5.074	24.978	1.00	0.00
ATOM	1446	CD ARG	95	-2.060	3.925	25.964	1.00	0.00
ATOM	1447	NE ARG	95	-1.007	2.937	25.734	1.00	0.00
ATOM	1448	CZ ARG	95	-0.794	1.892	26.531	1.00	0.00
ATOM	1449	NH1 ARG	95	-1.554	1.714	27.602	1.00	0.00
ATOM	1450	NH2 ARG	95	0.169	1.022	26.254	1.00	0.00
ATOM	1453	H ARG	95	-1.825	6.924	22.527	1.00	0.00
ATOM	1454	HA ARG	95	-0.523	4.350	22.800	1.00	0.00
ATOM	1455	1HB ARG	95	-2.756	3.610	23.643	1.00	0.00
ATOM	1456	2HB ARG	95	-3.356	5.240	23.356	1.00	0.00
ATOM	1457	1HG ARG	95	-2.625	5.880	25.338	1.00	0.00
ATOM	1458	2HG ARG	95	-0.978	5.417	24.902	1.00	0.00
ATOM	1459	1HD ARG	95	-3.021	3.440	25.871	1.00	0.00
ATOM	1460	2HD ARG	95	-1.953	4.320	26.964	1.00	0.00
ATOM	1461	HE ARG	95	-0.442	3.057	24.940	1.00	0.00
ATOM	1462	1HH1 ARG	95	-2.289	2.361	27.810	1.00	0.00
ATOM	1463	2HH1 ARG	95	-1.395	0.935	28.217	1.00	0.00
ATOM	1464	1HH2 ARG	95	0.741	1.143	25.443	1.00	0.00
ATOM	1465	2HH2 ARG	95	0.323	0.234	26.855	1.00	0.00
ATOM	1466	N LEU	96	-2.419	5.097	20.308	1.00	0.00
ATOM	1467	CA LEU	96	-2.917	4.666	19.000	1.00	0.00
ATOM	1472	C LEU	96	-1.845	3.871	18.263	1.00	0.00
ATOM	1473	O LEU	96	-2.143	2.939	17.510	1.00	0.00
ATOM	1468	CB LEU	96	-3.336	5.889	18.173	1.00	0.00
ATOM	1469	CG LEU	96	-4.455	5.664	17.147	1.00	0.00
ATOM	1470	CD1 LEU	96	-3.869	5.467	15.758	1.00	0.00
ATOM	1471	CD2 LEU	96	-5.329	4.477	17.530	1.00	0.00
ATOM	1474	H LEU	96	-2.456	6.051	20.536	1.00	0.00
ATOM	1475	HA LEU	96	-3.777	4.034	19.162	1.00	0.00
ATOM	1476	1HB LEU	96	-2.465	6.248	17.643	1.00	0.00
ATOM	1477	2HB LEU	96	-3.658	6.660	18.856	1.00	0.00
ATOM	1478	HG LEU	96	-5.082	6.543	17.116	1.00	0.00
ATOM	1479	1HD1 LEU	96	-3.991	6.374	15.185	1.00	0.00
ATOM	1480	2HD1 LEU	96	-4.382	4.656	15.263	1.00	0.00
ATOM	1481	3HD1 LEU	96	-2.819	5.233	15.841	1.00	0.00
ATOM	1482	1HD2 LEU	96	-5.209	4.268	18.583	1.00	0.00
ATOM	1483	2HD2 LEU	96	-5.034	3.612	16.955	1.00	0.00
ATOM	1484	3HD2 LEU	96	-6.363	4.711	17.325	1.00	0.00
ATOM	1485	N VAL	97	-0.595	4.233	18.522	1.00	0.00
ATOM	1486	CA VAL	97	0.540	3.551	17.927	1.00	0.00
ATOM	1490	C VAL	97	0.540	2.095	18.364	1.00	0.00
ATOM	1491	O VAL	97	0.512	1.183	17.544	1.00	0.00
ATOM	1487	CB VAL	97	1.869	4.179	18.363	1.00	0.00
ATOM	1488	CG1 VAL	97	2.987	3.655	17.493	1.00	0.00
ATOM	1489	CG2 VAL	97	1.801	5.698	18.311	1.00	0.00
ATOM	1492	H VAL	97	-0.435	4.962	19.159	1.00	0.00



ATOM	1493	HA	VAL	97	0.467	3.614	16.843	1.00	0.00
ATOM	1494	HB	VAL	97	2.068	3.883	19.384	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.933	2.577	17.448	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.939	3.951	17.910	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.889	4.061	16.498	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.802	6.005	18.036	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.504	6.064	17.578	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.048	6.104	19.281	1.00	0.00
ATOM	1501	N	ALA	98	0.558	1.905	19.679	1.00	0.00
ATOM	1502	CA	ALA	98	0.556	0.580	20.279	1.00	0.00
ATOM	1504	C	ALA	98	-0.722	-0.181	19.954	1.00	0.00
ATOM	1505	O	ALA	98	-0.715	-1.402	19.911	1.00	0.00
ATOM	1503	CB	ALA	98	0.739	0.684	21.784	1.00	0.00
ATOM	1506	H	ALA	98	0.566	2.686	20.265	1.00	0.00
ATOM	1507	HA	ALA	98	1.399	0.033	19.877	1.00	0.00
ATOM	1508	1HB	ALA	98	-0.220	0.847	22.253	1.00	0.00
ATOM	1509	2HB	ALA	98	1.396	1.511	22.011	1.00	0.00
ATOM	1510	3HB	ALA	98	1.171	-0.232	22.158	1.00	0.00
ATOM	1511	N	PHE	99	-1.812	0.545	19.721	1.00	0.00
ATOM	1512	CA	PHE	99	-3.089	-0.074	19.390	1.00	0.00
ATOM	1520	C	PHE	99	-2.936	-0.952	18.156	1.00	0.00
ATOM	1521	O	PHE	99	-3.242	-2.145	18.183	1.00	0.00
ATOM	1513	CB	PHE	99	-4.147	1.002	19.111	1.00	0.00
ATOM	1514	CG	PHE	99	-5.007	1.406	20.284	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.797	0.483	20.956	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.047	2.730	20.690	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.608	0.882	22.009	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.847	3.131	21.740	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.631	2.211	22.401	1.00	0.00
ATOM	1522	H	PHE	99	-1.756	1.523	19.766	1.00	0.00
ATOM	1523	HA	PHE	99	-3.394	-0.686	20.223	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.799	0.647	18.331	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.646	1.893	18.760	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.778	-0.553	20.654	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.435	3.456	20.176	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.219	0.156	22.525	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.861	4.167	22.043	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.267	2.531	23.218	1.00	0.00
ATOM	1531	N	PHE	100	-2.452	-0.350	17.077	1.00	0.00
ATOM	1532	CA	PHE	100	-2.254	-1.069	15.825	1.00	0.00
ATOM	1540	C	PHE	100	-1.016	-1.956	15.896	1.00	0.00
ATOM	1541	O	PHE	100	-1.008	-3.073	15.372	1.00	0.00
ATOM	1533	CB	PHE	100	-2.117	-0.086	14.662	1.00	0.00
ATOM	1534	CG	PHE	100	-3.425	0.257	14.007	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.233	1.254	14.525	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.845	-0.420	12.873	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.437	1.570	13.926	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.048	-0.108	12.269	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.845	0.888	12.798	1.00	0.00
ATOM	1542	H	PHE	100	-2.224	0.607	17.125	1.00	0.00
ATOM	1543	HA	PHE	100	-3.121	-1.692	15.660	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.472	-0.518	13.910	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.676	0.830	15.023	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.914	1.789	15.408	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.222	-1.198	12.458	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.058	2.350	14.341	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.366	-0.642	11.387	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.787	1.134	12.329	1.00	0.00
ATOM	1551	N	VAL	101	0.029	-1.448	16.540	1.00	0.00
ATOM	1552	CA	VAL	101	1.282	-2.180	16.674	1.00	0.00
ATOM	1556	C	VAL	101	1.081	-3.495	17.430	1.00	0.00
ATOM	1557	O	VAL	101	1.697	-4.504	17.086	1.00	0.00
ATOM	1553	CB	VAL	101	2.368	-1.321	17.374	1.00	0.00
ATOM	1554	CG1	VAL	101	3.468	-2.185	17.982	1.00	0.00
ATOM	1555	CG2	VAL	101	2.968	-0.327	16.389	1.00	0.00
ATOM	1558	H	VAL	101	-0.042	-0.549	16.930	1.00	0.00
ATOM	1559	HA	VAL	101	1.631	-2.410	15.677	1.00	0.00
ATOM	1560	HB	VAL	101	1.898	-0.763	18.169	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.308	-3.217	17.708	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.449	-2.090	19.057	1.00	0.00
ATOM	1563	3HG1	VAL	101	4.431	-1.860	17.610	1.00	0.00
ATOM	1564	1HG2	VAL	101	3.484	0.450	16.932	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.180	0.110	15.794	1.00	0.00



ATOM	1566	3HG2	VAL	101	3.665	-0.838	15.742	1.00	0.00
ATOM	1567	N	PHE	102	0.216	-3.486	18.447	1.00	0.00
ATOM	1568	CA	PHE	102	-0.049	-4.688	19.233	1.00	0.00
ATOM	1576	C	PHE	102	-0.498	-5.840	18.344	1.00	0.00
ATOM	1577	O	PHE	102	0.041	-6.943	18.423	1.00	0.00
ATOM	1569	CB	PHE	102	-1.115	-4.417	20.298	1.00	0.00
ATOM	1570	CG	PHE	102	-0.562	-4.211	21.680	1.00	0.00
ATOM	1571	CD1	PHE	102	0.739	-3.773	21.867	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.351	-4.451	22.792	1.00	0.00
ATOM	1573	CE1	PHE	102	1.243	-3.580	23.139	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.853	-4.258	24.067	1.00	0.00
ATOM	1575	CZ	PHE	102	0.445	-3.823	24.241	1.00	0.00
ATOM	1578	H	PHE	102	-0.260	-2.647	18.677	1.00	0.00
ATOM	1579	HA	PHE	102	0.871	-4.971	19.722	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.796	-5.255	20.335	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.665	-3.527	20.028	1.00	0.00
ATOM	1582	HD1	PHE	102	-2.367	-4.793	22.658	1.00	0.00
ATOM	1583	HD2	PHE	102	1.364	-3.584	21.006	1.00	0.00
ATOM	1584	HE1	PHE	102	-1.479	-4.448	24.925	1.00	0.00
ATOM	1585	HE2	PHE	102	2.259	-3.239	23.272	1.00	0.00
ATOM	1586	HZ	PHE	102	0.836	-3.670	25.236	1.00	0.00
ATOM	1587	N	GLY	103	-1.483	-5.578	17.498	1.00	0.00
ATOM	1588	CA	GLY	103	-1.980	-6.610	16.616	1.00	0.00
ATOM	1589	C	GLY	103	-1.061	-6.881	15.443	1.00	0.00
ATOM	1590	O	GLY	103	-0.898	-8.029	15.044	1.00	0.00
ATOM	1591	H	GLY	103	-1.875	-4.677	17.477	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.943	-6.321	16.241	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.090	-7.524	17.182	1.00	0.00
ATOM	1594	N	ALA	104	-0.463	-5.832	14.888	1.00	0.00
ATOM	1595	CA	ALA	104	0.441	-5.982	13.750	1.00	0.00
ATOM	1597	C	ALA	104	1.644	-6.839	14.121	1.00	0.00
ATOM	1598	O	ALA	104	2.030	-7.737	13.372	1.00	0.00
ATOM	1596	CB	ALA	104	0.896	-4.620	13.246	1.00	0.00
ATOM	1599	H	ALA	104	-0.635	-4.933	15.250	1.00	0.00
ATOM	1600	HA	ALA	104	-0.104	-6.476	12.953	1.00	0.00
ATOM	1601	1HB	ALA	104	0.387	-4.390	12.322	1.00	0.00
ATOM	1602	2HB	ALA	104	1.962	-4.638	13.076	1.00	0.00
ATOM	1603	3HB	ALA	104	0.662	-3.867	13.984	1.00	0.00
ATOM	1604	N	ALA	105	2.220	-6.579	15.289	1.00	0.00
ATOM	1605	CA	ALA	105	3.360	-7.353	15.750	1.00	0.00
ATOM	1607	C	ALA	105	2.914	-8.771	16.077	1.00	0.00
ATOM	1608	O	ALA	105	3.619	-9.741	15.791	1.00	0.00
ATOM	1606	CB	ALA	105	4.004	-6.693	16.961	1.00	0.00
ATOM	1609	H	ALA	105	1.859	-5.858	15.861	1.00	0.00
ATOM	1610	HA	ALA	105	4.089	-7.386	14.952	1.00	0.00
ATOM	1611	1HB	ALA	105	5.052	-6.521	16.763	1.00	0.00
ATOM	1612	2HB	ALA	105	3.903	-7.339	17.821	1.00	0.00
ATOM	1613	3HB	ALA	105	3.516	-5.751	17.160	1.00	0.00
ATOM	1614	N	LEU	106	1.719	-8.875	16.655	1.00	0.00
ATOM	1615	CA	LEU	106	1.136	-10.162	17.014	1.00	0.00
ATOM	1620	C	LEU	106	0.945	-11.018	15.769	1.00	0.00
ATOM	1621	O	LEU	106	1.273	-12.204	15.752	1.00	0.00
ATOM	1616	CB	LEU	106	-0.215	-9.935	17.707	1.00	0.00
ATOM	1617	CG	LEU	106	-0.475	-10.788	18.947	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.906	-9.907	20.108	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.532	-11.843	18.659	1.00	0.00
ATOM	1622	H	LEU	106	1.206	-8.056	16.835	1.00	0.00
ATOM	1623	HA	LEU	106	1.810	-10.663	17.691	1.00	0.00
ATOM	1624	1HB	LEU	106	-1.003	-10.123	16.991	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.266	-8.897	18.000	1.00	0.00
ATOM	1626	HG	LEU	106	0.438	-11.293	19.230	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.852	-10.257	20.495	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.012	-8.889	19.766	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.160	-9.948	20.889	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.126	-12.824	18.859	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.829	-11.780	17.622	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.392	-11.673	19.291	1.00	0.00
ATOM	1633	N	CYS	107	0.417	-10.392	14.731	1.00	0.00
ATOM	1634	CA	CYS	107	0.165	-11.052	13.459	1.00	0.00
ATOM	1637	C	CYS	107	1.467	-11.512	12.814	1.00	0.00
ATOM	1638	O	CYS	107	1.545	-12.623	12.292	1.00	0.00
ATOM	1635	CB	CYS	107	-0.586	-10.100	12.528	1.00	0.00
ATOM	1636	SG	CYS	107	-2.272	-9.726	13.063	1.00	0.00



ATOM	1639	H	CYS	107	0.186	-9.443	14.826	1.00	0.00
ATOM	1640	HA	CYS	107	-0.446	-11.918	13.646	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.641	-10.533	11.542	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.047	-9.166	12.471	1.00	0.00
ATOM	1643	HG	CYS	107	-2.191	-9.066	14.210	1.00	0.00
ATOM	1644	N	ALA	108	2.487	-10.662	12.862	1.00	0.00
ATOM	1645	CA	ALA	108	3.785	-10.989	12.287	1.00	0.00
ATOM	1647	C	ALA	108	4.318	-12.297	12.860	1.00	0.00
ATOM	1648	O	ALA	108	4.623	-13.231	12.118	1.00	0.00
ATOM	1646	CB	ALA	108	4.775	-9.858	12.527	1.00	0.00
ATOM	1649	H	ALA	108	2.362	-9.790	13.298	1.00	0.00
ATOM	1650	HA	ALA	108	3.658	-11.104	11.220	1.00	0.00
ATOM	1651	1HB	ALA	108	5.508	-9.847	11.733	1.00	0.00
ATOM	1652	2HB	ALA	108	5.272	-10.009	13.474	1.00	0.00
ATOM	1653	3HB	ALA	108	4.249	-8.914	12.543	1.00	0.00
ATOM	1654	N	GLU	109	4.415	-12.368	14.183	1.00	0.00
ATOM	1655	CA	GLU	109	4.909	-13.567	14.847	1.00	0.00
ATOM	1661	C	GLU	109	3.943	-14.741	14.700	1.00	0.00
ATOM	1662	O	GLU	109	4.328	-15.890	14.909	1.00	0.00
ATOM	1656	CB	GLU	109	5.189	-13.301	16.322	1.00	0.00
ATOM	1657	CG	GLU	109	6.638	-12.929	16.582	1.00	0.00
ATOM	1658	CD	GLU	109	7.244	-13.688	17.743	1.00	0.00
ATOM	1659	OE1	GLU	109	6.487	-14.194	18.594	1.00	0.00
ATOM	1660	OE2	GLU	109	8.486	-13.804	17.790	1.00	0.00
ATOM	1663	H	GLU	109	4.149	-11.593	14.724	1.00	0.00
ATOM	1664	HA	GLU	109	5.841	-13.835	14.371	1.00	0.00
ATOM	1665	1HB	GLU	109	4.956	-14.187	16.893	1.00	0.00
ATOM	1666	2HB	GLU	109	4.561	-12.488	16.657	1.00	0.00
ATOM	1667	1HG	GLU	109	6.689	-11.873	16.793	1.00	0.00
ATOM	1668	2HG	GLU	109	7.214	-13.144	15.695	1.00	0.00
ATOM	1669	N	SER	110	2.703	-14.461	14.316	1.00	0.00
ATOM	1670	CA	SER	110	1.722	-15.518	14.130	1.00	0.00
ATOM	1673	C	SER	110	1.971	-16.217	12.797	1.00	0.00
ATOM	1674	O	SER	110	1.795	-17.430	12.677	1.00	0.00
ATOM	1671	CB	SER	110	0.302	-14.952	14.189	1.00	0.00
ATOM	1672	OG	SER	110	-0.025	-14.533	15.504	1.00	0.00
ATOM	1675	H	SER	110	2.445	-13.528	14.145	1.00	0.00
ATOM	1676	HA	SER	110	1.851	-16.234	14.929	1.00	0.00
ATOM	1677	1HB	SER	110	-0.401	-15.713	13.881	1.00	0.00
ATOM	1678	2HB	SER	110	0.226	-14.103	13.524	1.00	0.00
ATOM	1679	HG	SER	110	0.488	-13.745	15.726	1.00	0.00
ATOM	1680	N	VAL	111	2.428	-15.448	11.811	1.00	0.00
ATOM	1681	CA	VAL	111	2.752	-15.998	10.498	1.00	0.00
ATOM	1685	C	VAL	111	4.096	-16.718	10.578	1.00	0.00
ATOM	1686	O	VAL	111	4.416	-17.583	9.763	1.00	0.00
ATOM	1682	CB	VAL	111	2.824	-14.895	9.412	1.00	0.00
ATOM	1683	CG1	VAL	111	2.980	-15.504	8.026	1.00	0.00
ATOM	1684	CG2	VAL	111	1.592	-14.007	9.460	1.00	0.00
ATOM	1687	H	VAL	111	2.577	-14.493	11.979	1.00	0.00
ATOM	1688	HA	VAL	111	1.982	-16.707	10.226	1.00	0.00
ATOM	1689	HB	VAL	111	3.691	-14.280	9.610	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.024	-15.875	7.686	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.688	-16.317	8.067	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.337	-14.750	7.340	1.00	0.00
ATOM	1693	1HG2	VAL	111	0.783	-14.483	8.926	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.815	-13.055	9.000	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.300	-13.850	10.488	1.00	0.00
ATOM	1696	N	ASN	112	4.868	-16.352	11.596	1.00	0.00
ATOM	1697	CA	ASN	112	6.177	-16.945	11.836	1.00	0.00
ATOM	1702	C	ASN	112	6.028	-18.271	12.578	1.00	0.00
ATOM	1703	O	ASN	112	7.013	-18.956	12.854	1.00	0.00
ATOM	1698	CB	ASN	112	7.047	-15.992	12.667	1.00	0.00
ATOM	1699	CG	ASN	112	7.793	-14.967	11.830	1.00	0.00
ATOM	1700	OD1	ASN	112	8.943	-15.178	11.450	1.00	0.00
ATOM	1701	ND2	ASN	112	7.147	-13.843	11.554	1.00	0.00
ATOM	1704	H	ASN	112	4.538	-15.666	12.212	1.00	0.00
ATOM	1705	HA	ASN	112	6.650	-17.122	10.882	1.00	0.00
ATOM	1706	1HB	ASN	112	7.772	-16.572	13.220	1.00	0.00
ATOM	1707	2HB	ASN	112	6.416	-15.461	13.366	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.232	-13.734	11.897	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.607	-13.159	11.023	1.00	0.00
ATOM	1710	N	LYS	113	4.788	-18.618	12.908	1.00	0.00
ATOM	1711	CA	LYS	113	4.493	-19.852	13.624	1.00	0.00



ATOM	1717	C	LYS	113	3.249	-20.522	13.036	1.00	0.00
ATOM	1718	O	LYS	113	2.911	-20.309	11.873	1.00	0.00
ATOM	1712	CB	LYS	113	4.281	-19.563	15.115	1.00	0.00
ATOM	1713	CG	LYS	113	5.571	-19.381	15.901	1.00	0.00
ATOM	1714	CD	LYS	113	5.329	-18.634	17.205	1.00	0.00
ATOM	1715	CE	LYS	113	6.080	-17.311	17.242	1.00	0.00
ATOM	1716	NZ	LYS	113	6.217	-16.787	18.628	1.00	0.00
ATOM	1719	H	LYS	113	4.046	-18.024	12.662	1.00	0.00
ATOM	1720	HA	LYS	113	5.336	-20.515	13.508	1.00	0.00
ATOM	1721	1HB	LYS	113	3.732	-20.385	15.552	1.00	0.00
ATOM	1722	2HB	LYS	113	3.695	-18.660	15.216	1.00	0.00
ATOM	1723	1HG	LYS	113	6.272	-18.823	15.299	1.00	0.00
ATOM	1724	2HG	LYS	113	5.984	-20.354	16.127	1.00	0.00
ATOM	1725	1HD	LYS	113	5.662	-19.250	18.028	1.00	0.00
ATOM	1726	2HD	LYS	113	4.272	-18.438	17.304	1.00	0.00
ATOM	1727	1HE	LYS	113	5.542	-16.590	16.645	1.00	0.00
ATOM	1728	2HE	LYS	113	7.064	-17.460	16.824	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.349	-15.746	18.609	1.00	0.00
ATOM	1730	2HZ	LYS	113	7.046	-17.219	19.095	1.00	0.00
ATOM	1731	3HZ	LYS	113	5.369	-17.007	19.181	1.00	0.00
ATOM	1732	N	GLU	114	2.568	-21.327	13.843	1.00	0.00
ATOM	1733	CA	GLU	114	1.365	-22.025	13.401	1.00	0.00
ATOM	1739	C	GLU	114	0.109	-21.286	13.867	1.00	0.00
ATOM	1740	O	GLU	114	-0.764	-21.867	14.509	1.00	0.00
ATOM	1734	CB	GLU	114	1.353	-23.459	13.939	1.00	0.00
ATOM	1735	CG	GLU	114	2.117	-24.451	13.074	1.00	0.00
ATOM	1736	CD	GLU	114	2.307	-25.793	13.754	1.00	0.00
ATOM	1737	OE1	GLU	114	3.028	-25.855	14.769	1.00	0.00
ATOM	1738	OE2	GLU	114	1.730	-26.799	13.277	1.00	0.00
ATOM	1741	H	GLU	114	2.881	-21.457	14.761	1.00	0.00
ATOM	1742	HA	GLU	114	1.374	-22.053	12.322	1.00	0.00
ATOM	1743	1HB	GLU	114	0.328	-23.795	14.013	1.00	0.00
ATOM	1744	2HB	GLU	114	1.794	-23.464	14.925	1.00	0.00
ATOM	1745	1HG	GLU	114	3.089	-24.038	12.849	1.00	0.00
ATOM	1746	2HG	GLU	114	1.570	-24.604	12.154	1.00	0.00
ATOM	1747	N	MET	115	0.023	-20.000	13.549	1.00	0.00
ATOM	1748	CA	MET	115	-1.127	-19.193	13.947	1.00	0.00
ATOM	1753	C	MET	115	-1.723	-18.473	12.742	1.00	0.00
ATOM	1754	O	MET	115	-2.032	-17.284	12.805	1.00	0.00
ATOM	1749	CB	MET	115	-0.720	-18.173	15.015	1.00	0.00
ATOM	1750	CG	MET	115	-0.417	-18.786	16.371	1.00	0.00
ATOM	1751	SD	MET	115	1.348	-18.824	16.735	1.00	0.00
ATOM	1752	CE	MET	115	1.471	-20.330	17.696	1.00	0.00
ATOM	1755	H	MET	115	0.752	-19.580	13.038	1.00	0.00
ATOM	1756	HA	MET	115	-1.872	-19.857	14.359	1.00	0.00
ATOM	1757	1HB	MET	115	-1.522	-17.460	15.137	1.00	0.00
ATOM	1758	2HB	MET	115	0.163	-17.651	14.677	1.00	0.00
ATOM	1759	1HG	MET	115	-0.798	-19.797	16.389	1.00	0.00
ATOM	1760	2HG	MET	115	-0.915	-18.203	17.133	1.00	0.00
ATOM	1761	1HE	MET	115	0.510	-20.556	18.135	1.00	0.00
ATOM	1762	2HE	MET	115	2.203	-20.199	18.479	1.00	0.00
ATOM	1763	3HE	MET	115	1.773	-21.144	17.053	1.00	0.00
ATOM	1764	N	GLU	116	-1.870	-19.207	11.646	1.00	0.00
ATOM	1765	CA	GLU	116	-2.414	-18.662	10.401	1.00	0.00
ATOM	1771	C	GLU	116	-3.786	-17.983	10.585	1.00	0.00
ATOM	1772	O	GLU	116	-3.944	-16.816	10.226	1.00	0.00
ATOM	1766	CB	GLU	116	-2.506	-19.762	9.341	1.00	0.00
ATOM	1767	CG	GLU	116	-1.220	-19.968	8.558	1.00	0.00
ATOM	1768	CD	GLU	116	-1.479	-20.499	7.165	1.00	0.00
ATOM	1769	OE1	GLU	116	-2.538	-20.172	6.591	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.634	-21.253	6.641	1.00	0.00
ATOM	1773	H	GLU	116	-1.594	-20.147	11.668	1.00	0.00
ATOM	1774	HA	GLU	116	-1.717	-17.915	10.051	1.00	0.00
ATOM	1775	1HB	GLU	116	-3.289	-19.508	8.642	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.758	-20.693	9.826	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.597	-20.673	9.089	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.705	-19.021	8.477	1.00	0.00
ATOM	1779	N	PRO	117	-4.810	-18.688	11.127	1.00	0.00
ATOM	1780	CA	PRO	117	-6.149	-18.104	11.310	1.00	0.00
ATOM	1784	C	PRO	117	-6.171	-16.976	12.338	1.00	0.00
ATOM	1785	O	PRO	117	-6.956	-16.036	12.223	1.00	0.00
ATOM	1781	CB	PRO	117	-7.004	-19.280	11.803	1.00	0.00
ATOM	1782	CG	PRO	117	-6.211	-20.502	11.490	1.00	0.00



ATOM	1783	CD	PRO	117	-4.773	-20.090	11.578	1.00	0.00
ATOM	1786	HA	PRO	117	-6.547	-17.738	10.375	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.950	-19.282	11.282	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.174	-19.182	12.864	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.442	-20.845	10.492	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.426	-21.275	12.213	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.164	-20.691	10.920	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.420	-20.161	12.597	1.00	0.00
ATOM	1793	N	LEU	118	-5.309	-17.082	13.344	1.00	0.00
ATOM	1794	CA	LEU	118	-5.231	-16.082	14.406	1.00	0.00
ATOM	1799	C	LEU	118	-4.895	-14.699	13.852	1.00	0.00
ATOM	1800	O	LEU	118	-5.338	-13.690	14.395	1.00	0.00
ATOM	1795	CB	LEU	118	-4.195	-16.497	15.455	1.00	0.00
ATOM	1796	CG	LEU	118	-4.738	-17.371	16.585	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.715	-18.838	16.184	1.00	0.00
ATOM	1798	CD2	LEU	118	-3.934	-17.149	17.857	1.00	0.00
ATOM	1801	H	LEU	118	-4.713	-17.857	13.375	1.00	0.00
ATOM	1802	HA	LEU	118	-6.200	-16.034	14.878	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.778	-15.605	15.894	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.404	-17.039	14.957	1.00	0.00
ATOM	1805	HG	LEU	118	-5.763	-17.096	16.784	1.00	0.00
ATOM	1806	1HD1	LEU	118	-5.654	-19.299	16.453	1.00	0.00
ATOM	1807	2HD1	LEU	118	-3.907	-19.339	16.697	1.00	0.00
ATOM	1808	3HD1	LEU	118	-4.568	-18.918	15.117	1.00	0.00
ATOM	1809	1HD2	LEU	118	-3.952	-16.100	18.115	1.00	0.00
ATOM	1810	2HD2	LEU	118	-2.913	-17.463	17.699	1.00	0.00
ATOM	1811	3HD2	LEU	118	-4.368	-17.725	18.662	1.00	0.00
ATOM	1812	N	VAL	119	-4.122	-14.663	12.773	1.00	0.00
ATOM	1813	CA	VAL	119	-3.729	-13.405	12.143	1.00	0.00
ATOM	1817	C	VAL	119	-4.951	-12.578	11.738	1.00	0.00
ATOM	1818	O	VAL	119	-5.075	-11.411	12.115	1.00	0.00
ATOM	1814	CB	VAL	119	-2.854	-13.656	10.893	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.540	-12.353	10.173	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.573	-14.377	11.273	1.00	0.00
ATOM	1819	H	VAL	119	-3.806	-15.507	12.387	1.00	0.00
ATOM	1820	HA	VAL	119	-3.147	-12.839	12.859	1.00	0.00
ATOM	1821	HB	VAL	119	-3.409	-14.289	10.217	1.00	0.00
ATOM	1822	1HG1	VAL	119	-3.081	-11.544	10.640	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.835	-12.435	9.138	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.480	-12.158	10.232	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.901	-14.385	10.428	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.803	-15.393	11.561	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.104	-13.865	12.100	1.00	0.00
ATOM	1828	N	GLY	120	-5.851	-13.190	10.976	1.00	0.00
ATOM	1829	CA	GLY	120	-7.044	-12.488	10.539	1.00	0.00
ATOM	1830	C	GLY	120	-7.952	-12.135	11.696	1.00	0.00
ATOM	1831	O	GLY	120	-8.607	-11.095	11.681	1.00	0.00
ATOM	1832	H	GLY	120	-5.703	-14.122	10.709	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.584	-13.104	9.842	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.748	-11.578	10.041	1.00	0.00
ATOM	1835	N	GLN	121	-7.979	-12.993	12.708	1.00	0.00
ATOM	1836	CA	GLN	121	-8.799	-12.749	13.880	1.00	0.00
ATOM	1842	C	GLN	121	-8.291	-11.515	14.610	1.00	0.00
ATOM	1843	O	GLN	121	-9.053	-10.606	14.890	1.00	0.00
ATOM	1837	CB	GLN	121	-8.802	-13.959	14.819	1.00	0.00
ATOM	1838	CG	GLN	121	-9.328	-15.253	14.201	1.00	0.00
ATOM	1839	CD	GLN	121	-10.247	-15.040	13.007	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.915	-15.421	11.884	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.407	-14.439	13.240	1.00	0.00
ATOM	1844	H	GLN	121	-7.428	-13.798	12.669	1.00	0.00
ATOM	1845	HA	GLN	121	-9.809	-12.557	13.548	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.418	-13.724	15.677	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.794	-14.135	15.158	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.872	-15.799	14.957	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.485	-15.844	13.876	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.616	-14.162	14.158	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.012	-14.288	12.483	1.00	0.00
ATOM	1852	N	VAL	122	-6.998	-11.462	14.890	1.00	0.00
ATOM	1853	CA	VAL	122	-6.427	-10.298	15.563	1.00	0.00
ATOM	1857	C	VAL	122	-6.703	-9.042	14.744	1.00	0.00
ATOM	1858	O	VAL	122	-6.953	-7.968	15.294	1.00	0.00
ATOM	1854	CB	VAL	122	-4.902	-10.457	15.779	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.314	-9.219	16.435	1.00	0.00



ATOM	1856	CG2	VAL	122	-4.599	-11.689	16.615	1.00	0.00
ATOM	1859	H	VAL	122	-6.412	-12.206	14.625	1.00	0.00
ATOM	1860	HA	VAL	122	-6.915	-10.194	16.530	1.00	0.00
ATOM	1861	HB	VAL	122	-4.433	-10.582	14.812	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.960	-8.373	16.249	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.336	-9.023	16.022	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.231	-9.381	17.499	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.372	-11.818	17.360	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.645	-11.567	17.104	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.567	-12.559	15.975	1.00	0.00
ATOM	1868	N	GLN	123	-6.688	-9.198	13.425	1.00	0.00
ATOM	1869	CA	GLN	123	-6.965	-8.092	12.525	1.00	0.00
ATOM	1875	C	GLN	123	-8.392	-7.589	12.727	1.00	0.00
ATOM	1876	O	GLN	123	-8.621	-6.384	12.846	1.00	0.00
ATOM	1870	CB	GLN	123	-6.757	-8.508	11.066	1.00	0.00
ATOM	1871	CG	GLN	123	-6.328	-7.354	10.174	1.00	0.00
ATOM	1872	CD	GLN	123	-6.427	-7.684	8.701	1.00	0.00
ATOM	1873	OE1	GLN	123	-7.322	-8.411	8.272	1.00	0.00
ATOM	1874	NE2	GLN	123	-5.507	-7.147	7.913	1.00	0.00
ATOM	1877	H	GLN	123	-6.505	-10.088	13.051	1.00	0.00
ATOM	1878	HA	GLN	123	-6.281	-7.293	12.765	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.683	-8.909	10.680	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.998	-9.279	11.021	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.305	-7.098	10.404	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.964	-6.505	10.379	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.825	-6.574	8.322	1.00	0.00
ATOM	1884	2HE2	GLN	123	-5.550	-7.344	6.956	1.00	0.00
ATOM	1885	N	GLU	124	-9.348	-8.515	12.778	1.00	0.00
ATOM	1886	CA	GLU	124	-10.743	-8.148	12.972	1.00	0.00
ATOM	1892	C	GLU	124	-10.989	-7.666	14.401	1.00	0.00
ATOM	1893	O	GLU	124	-11.729	-6.707	14.602	1.00	0.00
ATOM	1887	CB	GLU	124	-11.685	-9.306	12.620	1.00	0.00
ATOM	1888	CG	GLU	124	-11.497	-10.547	13.471	1.00	0.00
ATOM	1889	CD	GLU	124	-12.661	-11.511	13.379	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.375	-11.491	12.352	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.873	-12.291	14.334	1.00	0.00
ATOM	1894	H	GLU	124	-9.107	-9.464	12.683	1.00	0.00
ATOM	1895	HA	GLU	124	-10.950	-7.325	12.304	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.525	-9.578	11.587	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.705	-8.971	12.737	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.377	-10.248	14.501	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.599	-11.049	13.149	1.00	0.00
ATOM	1900	N	TRP	125	-10.356	-8.306	15.393	1.00	0.00
ATOM	1901	CA	TRP	125	-10.526	-7.886	16.786	1.00	0.00
ATOM	1912	C	TRP	125	-10.108	-6.433	16.922	1.00	0.00
ATOM	1913	O	TRP	125	-10.713	-5.651	17.658	1.00	0.00
ATOM	1902	CB	TRP	125	-9.665	-8.718	17.761	1.00	0.00
ATOM	1903	CG	TRP	125	-9.822	-10.209	17.690	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.869	-10.930	17.184	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.867	-11.168	18.158	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.604	-12.278	17.291	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.380	-12.446	17.878	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.619	-11.064	18.777	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.683	-13.613	18.190	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.932	-12.220	19.090	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.461	-13.479	18.790	1.00	0.00
ATOM	1914	H	TRP	125	-9.756	-9.067	15.181	1.00	0.00
ATOM	1915	HA	TRP	125	-11.570	-7.978	17.044	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.886	-8.412	18.767	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.628	-8.501	17.562	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.760	-10.495	16.758	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.197	-13.000	16.995	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.201	-10.100	19.035	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.078	-14.592	17.964	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.964	-12.158	19.564	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.890	-14.359	19.062	1.00	0.00
ATOM	1924	N	MET	126	-9.056	-6.092	16.198	1.00	0.00
ATOM	1925	CA	MET	126	-8.511	-4.746	16.216	1.00	0.00
ATOM	1930	C	MET	126	-9.405	-3.768	15.469	1.00	0.00
ATOM	1931	O	MET	126	-9.814	-2.745	16.018	1.00	0.00
ATOM	1926	CB	MET	126	-7.120	-4.747	15.584	1.00	0.00
ATOM	1927	CG	MET	126	-6.105	-3.879	16.310	1.00	0.00
ATOM	1928	SD	MET	126	-4.689	-3.459	15.271	1.00	0.00



ATOM	1929	CB	MET	126	-4.397	-5.011	14.425	1.00	0.00
ATOM	1932	H	MET	126	-8.627	-6.781	15.633	1.00	0.00
ATOM	1933	HA	MET	126	-8.433	-4.430	17.243	1.00	0.00
ATOM	1934	1HB	MET	126	-7.201	-4.392	14.568	1.00	0.00
ATOM	1935	2HB	MET	126	-6.747	-5.760	15.572	1.00	0.00
ATOM	1936	1HG	MET	126	-5.751	-4.414	17.180	1.00	0.00
ATOM	1937	2HG	MET	126	-6.589	-2.966	16.622	1.00	0.00
ATOM	1938	1HE	MET	126	-3.373	-5.317	14.579	1.00	0.00
ATOM	1939	2HE	MET	126	-4.580	-4.886	13.369	1.00	0.00
ATOM	1940	3HE	MET	126	-5.061	-5.766	14.819	1.00	0.00
ATOM	1941	N	VAL	127	-9.689	-4.076	14.211	1.00	0.00
ATOM	1942	CA	VAL	127	-10.511	-3.203	13.383	1.00	0.00
ATOM	1946	C	VAL	127	-11.914	-3.005	13.966	1.00	0.00
ATOM	1947	O	VAL	127	-12.485	-1.925	13.831	1.00	0.00
ATOM	1943	CB	VAL	127	-10.588	-3.704	11.916	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.538	-4.884	11.768	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.998	-2.572	10.985	1.00	0.00
ATOM	1948	H	VAL	127	-9.320	-4.902	13.824	1.00	0.00
ATOM	1949	HA	VAL	127	-10.025	-2.238	13.368	1.00	0.00
ATOM	1950	HB	VAL	127	-9.601	-4.032	11.622	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.205	-5.695	12.399	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.551	-5.210	10.739	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.533	-4.584	12.064	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.596	-2.755	9.999	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.609	-1.638	11.363	1.00	0.00
ATOM	1956	3HG2	VAL	127	-12.074	-2.519	10.932	1.00	0.00
ATOM	1957	N	GLU	128	-12.461	-4.028	14.628	1.00	0.00
ATOM	1958	CA	GLU	128	-13.790	-3.909	15.221	1.00	0.00
ATOM	1964	C	GLU	128	-13.761	-2.967	16.414	1.00	0.00
ATOM	1965	O	GLU	128	-14.555	-2.031	16.498	1.00	0.00
ATOM	1959	CB	GLU	128	-14.322	-5.277	15.647	1.00	0.00
ATOM	1960	CG	GLU	128	-14.962	-6.056	14.510	1.00	0.00
ATOM	1961	CD	GLU	128	-16.171	-6.856	14.951	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.386	-7.005	16.173	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.915	-7.347	14.072	1.00	0.00
ATOM	1966	H	GLU	128	-11.961	-4.876	14.727	1.00	0.00
ATOM	1967	HA	GLU	128	-14.445	-3.494	14.473	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.061	-5.137	16.421	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.504	-5.862	16.043	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.229	-6.736	14.100	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.271	-5.360	13.746	1.00	0.00
ATOM	1972	N	TYR	129	-12.831	-3.207	17.325	1.00	0.00
ATOM	1973	CA	TYR	129	-12.690	-2.372	18.508	1.00	0.00
ATOM	1982	C	TYR	129	-12.441	-0.919	18.120	1.00	0.00
ATOM	1983	O	TYR	129	-12.854	0.014	18.816	1.00	0.00
ATOM	1974	CB	TYR	129	-11.525	-2.866	19.364	1.00	0.00
ATOM	1975	CG	TYR	129	-11.666	-2.500	20.821	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.470	-3.245	21.676	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.008	-1.393	21.338	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.607	-2.897	23.006	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.144	-1.038	22.663	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.943	-1.792	23.493	1.00	0.00
ATOM	1981	OH	TYR	129	-12.087	-1.425	24.808	1.00	0.00
ATOM	1984	H	TYR	129	-12.217	-3.963	17.196	1.00	0.00
ATOM	1985	HA	TYR	129	-13.604	-2.437	19.080	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.611	-2.422	18.998	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.452	-3.939	19.285	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.381	-0.803	20.686	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.987	-4.110	21.290	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.623	-0.173	23.045	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.235	-3.489	23.659	1.00	0.00
ATOM	1992	HH	TYR	129	-12.406	-2.182	25.332	1.00	0.00
ATOM	1993	N	LEU	130	-11.740	-0.741	17.017	1.00	0.00
ATOM	1994	CA	LEU	130	-11.392	0.584	16.538	1.00	0.00
ATOM	1999	C	LEU	130	-12.558	1.302	15.859	1.00	0.00
ATOM	2000	O	LEU	130	-12.858	2.444	16.194	1.00	0.00
ATOM	1995	CB	LEU	130	-10.210	0.503	15.577	1.00	0.00
ATOM	1996	CG	LEU	130	-8.872	0.961	16.156	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.838	-0.148	16.052	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.389	2.213	15.441	1.00	0.00
ATOM	2001	H	LEU	130	-11.427	-1.533	16.521	1.00	0.00
ATOM	2002	HA	LEU	130	-11.092	1.166	17.396	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.436	1.121	14.723	1.00	0.00



ATOM	2004	2HB	LEU	130	-10.107	-0.521	15.248	1.00	0.00
ATOM	2005	RG	LEU	130	-9.001	1.199	17.201	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.251	-1.065	16.445	1.00	0.00
ATOM	2007	2HD1	LEU	130	-6.960	0.123	16.621	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.565	-0.291	15.017	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.374	2.067	15.103	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.425	3.052	16.121	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.026	2.411	14.592	1.00	0.00
ATOM	2012	N	GLU	131	-13.191	0.661	14.888	1.00	0.00
ATOM	2013	CA	GLU	131	-14.288	1.296	14.160	1.00	0.00
ATOM	2019	C	GLU	131	-15.468	1.646	15.068	1.00	0.00
ATOM	2020	O	GLU	131	-16.146	2.650	14.849	1.00	0.00
ATOM	2014	CB	GLU	131	-14.745	0.412	12.988	1.00	0.00
ATOM	2015	CG	GLU	131	-15.466	-0.861	13.402	1.00	0.00
ATOM	2016	CD	GLU	131	-16.959	-0.791	13.157	1.00	0.00
ATOM	2017	OE1	GLU	131	-17.388	-0.998	12.004	1.00	0.00
ATOM	2018	OE2	GLU	131	-17.712	-0.522	14.120	1.00	0.00
ATOM	2021	H	GLU	131	-12.902	-0.246	14.633	1.00	0.00
ATOM	2022	HA	GLU	131	-13.901	2.218	13.755	1.00	0.00
ATOM	2023	1HB	GLU	131	-13.876	0.134	12.409	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.412	0.985	12.360	1.00	0.00
ATOM	2025	1HG	GLU	131	-15.294	-1.029	14.455	1.00	0.00
ATOM	2026	2HG	GLU	131	-15.063	-1.689	12.837	1.00	0.00
ATOM	2027	N	THR	132	-15.727	0.819	16.066	1.00	0.00
ATOM	2028	CA	THR	132	-16.849	1.055	16.959	1.00	0.00
ATOM	2032	C	THR	132	-16.552	2.070	18.067	1.00	0.00
ATOM	2033	O	THR	132	-17.426	2.855	18.435	1.00	0.00
ATOM	2029	CB	THR	132	-17.323	-0.255	17.605	1.00	0.00
ATOM	2030	OG1	THR	132	-17.209	-1.334	16.669	1.00	0.00
ATOM	2031	CG2	THR	132	-18.768	-0.137	18.068	1.00	0.00
ATOM	2034	H	THR	132	-15.170	0.019	16.186	1.00	0.00
ATOM	2035	HA	THR	132	-17.664	1.435	16.360	1.00	0.00
ATOM	2036	HB	THR	132	-16.696	-0.460	18.464	1.00	0.00
ATOM	2037	HG1	THR	132	-17.355	-0.998	15.767	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.247	0.679	17.548	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.791	0.052	19.131	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.292	-1.057	17.855	1.00	0.00
ATOM	2041	N	ARG	133	-15.352	2.043	18.642	1.00	0.00
ATOM	2042	CA	ARG	133	-15.051	2.963	19.743	1.00	0.00
ATOM	2050	C	ARG	133	-13.934	3.953	19.435	1.00	0.00
ATOM	2051	O	ARG	133	-14.046	5.130	19.779	1.00	0.00
ATOM	2043	CB	ARG	133	-14.696	2.188	21.019	1.00	0.00
ATOM	2044	CG	ARG	133	-15.283	0.788	21.098	1.00	0.00
ATOM	2045	CD	ARG	133	-14.903	0.101	22.402	1.00	0.00
ATOM	2046	NE	ARG	133	-16.074	-0.226	23.215	1.00	0.00
ATOM	2047	CZ	ARG	133	-16.021	-0.786	24.429	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.851	-1.093	24.984	1.00	0.00
ATOM	2049	NH2	ARG	133	-17.146	-1.033	25.087	1.00	0.00
ATOM	2052	H	ARG	133	-14.684	1.384	18.353	1.00	0.00
ATOM	2053	HA	ARG	133	-15.946	3.532	19.932	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.053	2.749	21.871	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.622	2.104	21.083	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.909	0.204	20.268	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.361	0.854	21.036	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.258	0.760	22.964	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.370	-0.812	22.173	1.00	0.00
ATOM	2060	HE	ARG	133	-16.960	-0.012	22.831	1.00	0.00
ATOM	2061	1HH1	ARG	133	-13.994	-0.901	24.500	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.815	-1.532	25.889	1.00	0.00
ATOM	2063	1HH2	ARG	133	-18.038	-0.798	24.672	1.00	0.00
ATOM	2064	2HH2	ARG	133	-17.120	-1.445	26.002	1.00	0.00
ATOM	2065	N	LEU	134	-12.856	3.490	18.820	1.00	0.00
ATOM	2066	CA	LEU	134	-11.730	4.376	18.519	1.00	0.00
ATOM	2071	C	LEU	134	-12.148	5.504	17.581	1.00	0.00
ATOM	2072	O	LEU	134	-11.786	6.660	17.797	1.00	0.00
ATOM	2067	CB	LEU	134	-10.565	3.592	17.920	1.00	0.00
ATOM	2068	CG	LEU	134	-9.393	3.328	18.866	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.731	4.632	19.278	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.850	2.550	20.091	1.00	0.00
ATOM	2073	H	LEU	134	-12.804	2.538	18.577	1.00	0.00
ATOM	2074	HA	LEU	134	-11.406	4.813	19.452	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.192	4.139	17.066	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.941	2.641	17.578	1.00	0.00



ATOM	2077	HG	LEU	134	-8.658	2.731	18.348	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.744	4.687	18.843	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.652	4.673	20.355	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.325	5.463	18.928	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.548	3.149	20.659	1.00	0.00
ATOM	2082	2HD2	LEU	134	-8.995	2.314	20.706	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.333	1.636	19.776	1.00	0.00
ATOM	2084	N	ALA	135	-12.913	5.163	16.546	1.00	0.00
ATOM	2085	CA	ALA	135	-13.388	6.141	15.574	1.00	0.00
ATOM	2087	C	ALA	135	-14.120	7.295	16.250	1.00	0.00
ATOM	2088	O	ALA	135	-14.024	8.439	15.797	1.00	0.00
ATOM	2086	CB	ALA	135	-14.289	5.473	14.548	1.00	0.00
ATOM	2089	H	ALA	135	-13.161	4.219	16.428	1.00	0.00
ATOM	2090	HA	ALA	135	-12.527	6.537	15.057	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.700	4.813	13.929	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.753	6.228	13.931	1.00	0.00
ATOM	2093	3HB	ALA	135	-15.053	4.904	15.058	1.00	0.00
ATOM	2094	N	ASP	136	-14.836	7.004	17.336	1.00	0.00
ATOM	2095	CA	ASP	136	-15.557	8.047	18.058	1.00	0.00
ATOM	2100	C	ASP	136	-14.572	9.012	18.697	1.00	0.00
ATOM	2101	O	ASP	136	-14.641	10.219	18.457	1.00	0.00
ATOM	2096	CB	ASP	136	-16.484	7.451	19.121	1.00	0.00
ATOM	2097	CG	ASP	136	-17.432	8.487	19.696	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.432	8.825	19.027	1.00	0.00
ATOM	2099	OD2	ASP	136	-17.174	8.976	20.815	1.00	0.00
ATOM	2102	H	ASP	136	-14.871	6.076	17.664	1.00	0.00
ATOM	2103	HA	ASP	136	-16.147	8.596	17.339	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.889	7.047	19.927	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.071	6.660	18.678	1.00	0.00
ATOM	2106	N	TRP	137	-13.632	8.478	19.480	1.00	0.00
ATOM	2107	CA	TRP	137	-12.621	9.306	20.113	1.00	0.00
ATOM	2118	C	TRP	137	-11.871	10.094	19.047	1.00	0.00
ATOM	2119	O	TRP	137	-11.654	11.297	19.180	1.00	0.00
ATOM	2108	CB	TRP	137	-11.643	8.434	20.914	1.00	0.00
ATOM	2109	CG	TRP	137	-10.506	9.206	21.520	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.422	9.667	22.800	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.292	9.608	20.872	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.241	10.344	22.984	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.532	10.319	21.814	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.776	9.439	19.582	1.00	0.00
ATOM	2115	C22	TRP	137	-7.289	10.859	21.508	1.00	0.00
ATOM	2116	C23	TRP	137	-7.544	9.976	19.281	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.811	10.678	20.240	1.00	0.00
ATOM	2120	H	TRP	137	-13.606	7.503	19.618	1.00	0.00
ATOM	2121	HA	TRP	137	-13.116	9.996	20.779	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.225	7.680	20.261	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.179	7.949	21.716	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.180	9.514	23.547	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.955	10.775	23.814	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.328	8.900	18.826	1.00	0.00
ATOM	2127	H22	TRP	137	-6.709	11.396	22.236	1.00	0.00
ATOM	2128	H23	TRP	137	-7.131	9.855	18.290	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.848	11.081	19.962	1.00	0.00
ATOM	2130	N	ILE	138	-11.477	9.393	17.992	1.00	0.00
ATOM	2131	CA	ILE	138	-10.738	9.993	16.893	1.00	0.00
ATOM	2136	C	ILE	138	-11.496	11.173	16.290	1.00	0.00
ATOM	2137	O	ILE	138	-10.928	12.249	16.109	1.00	0.00
ATOM	2132	CB	ILE	138	-10.408	8.936	15.806	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.035	8.316	16.080	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.446	9.527	14.398	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.044	6.804	16.123	1.00	0.00
ATOM	2138	H	ILE	138	-11.685	8.430	17.959	1.00	0.00
ATOM	2139	HA	ILE	138	-9.805	10.358	17.295	1.00	0.00
ATOM	2140	HB	ILE	138	-11.156	8.159	15.859	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.669	8.674	17.032	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.353	8.620	15.302	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.943	10.485	14.392	1.00	0.00
ATOM	2144	2HG2	ILE	138	-11.472	9.658	14.090	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.949	8.856	13.712	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.721	6.414	15.168	1.00	0.00
ATOM	2147	2HD1	ILE	138	-10.043	6.455	16.334	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.371	6.461	16.897	1.00	0.00
ATOM	2149	N	HIS	139	-12.775	10.975	15.988	1.00	0.00



ATOM	2150	CA	HIS	139	-13.591	12.035	15.405	1.00	0.00
ATOM	2157	C	HIS	139	-13.751	13.209	16.366	1.00	0.00
ATOM	2158	O	HIS	139	-13.805	14.359	15.939	1.00	0.00
ATOM	2151	CB	HIS	139	-14.961	11.495	14.996	1.00	0.00
ATOM	2152	CG	HIS	139	-14.951	10.818	13.659	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.827	9.816	13.315	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.148	10.995	12.583	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.565	9.402	12.091	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.551	10.102	11.620	1.00	0.00
ATOM	2159	H	HIS	139	-13.181	10.092	16.161	1.00	0.00
ATOM	2160	HA	HIS	139	-13.081	12.387	14.519	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.666	12.313	14.949	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.294	10.778	15.732	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.555	9.462	13.890	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.334	11.700	12.502	1.00	0.00
ATOM	2165	HE1	HIS	139	-16.084	8.614	11.567	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.299	10.144	10.663	1.00	0.00
ATOM	2167	N	SER	140	-13.829	12.921	17.661	1.00	0.00
ATOM	2168	CA	SER	140	-13.990	13.972	18.664	1.00	0.00
ATOM	2171	C	SER	140	-12.660	14.655	19.011	1.00	0.00
ATOM	2172	O	SER	140	-12.646	15.704	19.658	1.00	0.00
ATOM	2169	CB	SER	140	-14.628	13.390	19.924	1.00	0.00
ATOM	2170	OG	SER	140	-15.815	12.683	19.605	1.00	0.00
ATOM	2173	H	SER	140	-13.788	11.979	17.952	1.00	0.00
ATOM	2174	HA	SER	140	-14.656	14.715	18.253	1.00	0.00
ATOM	2175	1HB	SER	140	-14.870	14.190	20.607	1.00	0.00
ATOM	2176	2HB	SER	140	-13.934	12.710	20.396	1.00	0.00
ATOM	2177	HG	SER	140	-15.949	12.697	18.645	1.00	0.00
ATOM	2178	N	SER	141	-11.549	14.059	18.599	1.00	0.00
ATOM	2179	CA	SER	141	-10.235	14.622	18.893	1.00	0.00
ATOM	2182	C	SER	141	-9.727	15.505	17.760	1.00	0.00
ATOM	2183	O	SER	141	-9.188	16.583	17.995	1.00	0.00
ATOM	2180	CB	SER	141	-9.229	13.509	19.185	1.00	0.00
ATOM	2181	OG	SER	141	-8.611	13.702	20.445	1.00	0.00
ATOM	2184	H	SER	141	-11.612	13.216	18.102	1.00	0.00
ATOM	2185	HA	SER	141	-10.334	15.231	19.768	1.00	0.00
ATOM	2186	1HB	SER	141	-8.466	13.507	18.420	1.00	0.00
ATOM	2187	2HB	SER	141	-9.738	12.556	19.189	1.00	0.00
ATOM	2188	HG	SER	141	-7.933	14.392	20.367	1.00	0.00
ATOM	2189	N	GLY	142	-9.897	15.043	16.537	1.00	0.00
ATOM	2190	CA	GLY	142	-9.443	15.792	15.385	1.00	0.00
ATOM	2191	C	GLY	142	-9.530	14.951	14.143	1.00	0.00
ATOM	2192	O	GLY	142	-9.698	15.454	13.034	1.00	0.00
ATOM	2193	H	GLY	142	-10.334	14.174	16.411	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.418	16.092	15.537	1.00	0.00
ATOM	2195	2HA	GLY	142	-10.055	16.671	15.262	1.00	0.00
ATOM	2196	N	GLY	143	-9.439	13.652	14.343	1.00	0.00
ATOM	2197	CA	GLY	143	-9.531	12.725	13.240	1.00	0.00
ATOM	2198	C	GLY	143	-8.197	12.177	12.819	1.00	0.00
ATOM	2199	O	GLY	143	-7.155	12.639	13.276	1.00	0.00
ATOM	2200	H	GLY	143	-9.325	13.316	15.265	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.977	13.228	12.399	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.159	11.906	13.526	1.00	0.00
ATOM	2203	N	TRP	144	-8.238	11.190	11.935	1.00	0.00
ATOM	2204	CA	TRP	144	-7.031	10.564	11.425	1.00	0.00
ATOM	2215	C	TRP	144	-6.149	11.604	10.751	1.00	0.00
ATOM	2216	O	TRP	144	-4.923	11.488	10.757	1.00	0.00
ATOM	2205	CB	TRP	144	-7.399	9.445	10.447	1.00	0.00
ATOM	2206	CG	TRP	144	-8.128	8.307	11.102	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.481	8.086	11.115	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.542	7.238	11.849	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.765	6.944	11.830	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.590	6.404	12.284	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.229	6.902	12.188	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.363	5.258	13.042	1.00	0.00
ATOM	2213	CZ3	TRP	144	-6.006	5.766	12.940	1.00	0.00
ATOM	2214	CH2	TRP	144	-7.067	4.955	13.359	1.00	0.00
ATOM	2217	H	TRP	144	-9.107	10.879	11.609	1.00	0.00
ATOM	2218	HA	TRP	144	-6.494	10.143	12.261	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.496	9.052	10.003	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.033	9.847	9.670	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.207	8.728	10.638	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.665	6.571	11.986	1.00	0.00



ATOM	2223	HE3	TRP	144	-5.395	7.515	11.874	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.170	4.620	13.371	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.992	5.487	13.212	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.846	4.075	13.946	1.00	0.00
ATOM	2227	N	ALA	145	-6.791	12.635	10.203	1.00	0.00
ATOM	2228	CA	ALA	145	-6.089	13.728	9.544	1.00	0.00
ATOM	2230	C	ALA	145	-5.250	14.515	10.545	1.00	0.00
ATOM	2231	O	ALA	145	-4.155	14.977	10.218	1.00	0.00
ATOM	2229	CB	ALA	145	-7.077	14.646	8.840	1.00	0.00
ATOM	2232	H	ALA	145	-7.766	12.665	10.261	1.00	0.00
ATOM	2233	HA	ALA	145	-5.436	13.300	8.798	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.611	15.070	7.962	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.372	15.441	9.509	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.949	14.081	8.545	1.00	0.00
ATOM	2237	N	GLU	146	-5.749	14.644	11.777	1.00	0.00
ATOM	2238	CA	GLU	146	-5.011	15.354	12.819	1.00	0.00
ATOM	2244	C	GLU	146	-3.725	14.590	13.110	1.00	0.00
ATOM	2245	O	GLU	146	-2.651	15.169	13.266	1.00	0.00
ATOM	2239	CB	GLU	146	-5.874	15.503	14.087	1.00	0.00
ATOM	2240	CG	GLU	146	-5.130	15.253	15.391	1.00	0.00
ATOM	2241	CD	GLU	146	-5.565	16.188	16.501	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.662	17.409	16.248	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.815	15.704	17.628	1.00	0.00
ATOM	2246	H	GLU	146	-6.620	14.232	11.995	1.00	0.00
ATOM	2247	HA	GLU	146	-4.758	16.335	12.439	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.702	14.808	14.031	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.269	16.504	14.120	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.072	15.389	15.219	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.314	14.237	15.707	1.00	0.00
ATOM	2252	N	PHE	147	-3.856	13.273	13.144	1.00	0.00
ATOM	2253	CA	PHE	147	-2.736	12.377	13.383	1.00	0.00
ATOM	2261	C	PHE	147	-1.736	12.449	12.227	1.00	0.00
ATOM	2262	O	PHE	147	-0.525	12.357	12.441	1.00	0.00
ATOM	2254	CB	PHE	147	-3.264	10.946	13.560	1.00	0.00
ATOM	2255	CG	PHE	147	-2.217	9.916	13.882	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.135	10.219	14.694	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.323	8.633	13.365	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.179	9.263	14.982	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.371	7.675	13.652	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.299	7.990	14.459	1.00	0.00
ATOM	2263	H	PHE	147	-4.745	12.890	12.987	1.00	0.00
ATOM	2264	HA	PHE	147	-2.240	12.690	14.295	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.755	10.643	12.645	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.985	10.938	14.362	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.041	11.214	15.103	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.162	8.385	12.733	1.00	0.00
ATOM	2269	HE1	PHE	147	0.660	9.511	15.616	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.466	6.680	13.242	1.00	0.00
ATOM	2271	HZ	PHE	147	0.449	7.239	14.680	1.00	0.00
ATOM	2272	N	THR	148	-2.237	12.628	11.003	1.00	0.00
ATOM	2273	CA	THR	148	-1.362	12.719	9.836	1.00	0.00
ATOM	2277	C	THR	148	-0.514	13.983	9.883	1.00	0.00
ATOM	2278	O	THR	148	0.594	14.010	9.367	1.00	0.00
ATOM	2274	CB	THR	148	-2.139	12.684	8.507	1.00	0.00
ATOM	2275	OG1	THR	148	-3.471	12.220	8.721	1.00	0.00
ATOM	2276	CG2	THR	148	-1.439	11.783	7.501	1.00	0.00
ATOM	2279	H	THR	148	-3.213	12.704	10.886	1.00	0.00
ATOM	2280	HA	THR	148	-0.701	11.865	9.858	1.00	0.00
ATOM	2281	HB	THR	148	-2.178	13.683	8.104	1.00	0.00
ATOM	2282	HG1	THR	148	-3.488	11.597	9.456	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.564	12.285	7.115	1.00	0.00
ATOM	2284	2HG2	THR	148	-2.113	11.558	6.689	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.143	10.863	7.987	1.00	0.00
ATOM	2286	N	ALA	149	-1.031	15.025	10.512	1.00	0.00
ATOM	2287	CA	ALA	149	-0.289	16.269	10.628	1.00	0.00
ATOM	2289	C	ALA	149	0.622	16.220	11.849	1.00	0.00
ATOM	2290	O	ALA	149	1.652	16.889	11.902	1.00	0.00
ATOM	2288	CB	ALA	149	-1.237	17.455	10.706	1.00	0.00
ATOM	2291	H	ALA	149	-1.926	14.954	10.915	1.00	0.00
ATOM	2292	HA	ALA	149	0.323	16.375	9.743	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.837	17.377	11.600	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.882	17.457	9.839	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.667	18.371	10.733	1.00	0.00



ATOM	2296	N	LEU	150	0.220	15.423	12.827	1.00	0.00
ATOM	2297	CA	LEU	150	0.970	15.272	14.066	1.00	0.00
ATOM	2302	C	LEU	150	2.267	14.494	13.852	1.00	0.00
ATOM	2303	O	LEU	150	3.302	14.837	14.423	1.00	0.00
ATOM	2298	CB	LEU	150	0.101	14.568	15.110	1.00	0.00
ATOM	2299	CG	LEU	150	-0.702	15.499	16.013	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.790	14.730	16.739	1.00	0.00
ATOM	2301	CD2	LEU	150	0.207	16.205	17.007	1.00	0.00
ATOM	2304	H	LEU	150	-0.618	14.926	12.718	1.00	0.00
ATOM	2305	HA	LEU	150	1.214	16.261	14.426	1.00	0.00
ATOM	2306	1HB	LEU	150	0.731	13.963	15.731	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.589	13.919	14.592	1.00	0.00
ATOM	2308	HG	LEU	150	-1.176	16.249	15.404	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.533	14.644	17.785	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.881	13.744	16.308	1.00	0.00
ATOM	2311	3HD1	LEU	150	-2.729	15.255	16.641	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.194	16.311	16.580	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.270	15.622	17.914	1.00	0.00
ATOM	2314	3HD2	LEU	150	-0.194	17.181	17.232	1.00	0.00
ATOM	2315	N	TYR	151	2.207	13.442	13.044	1.00	0.00
ATOM	2316	CA	TYR	151	3.386	12.621	12.779	1.00	0.00
ATOM	2325	C	TYR	151	3.577	12.400	11.285	1.00	0.00
ATOM	2326	O	TYR	151	4.068	11.358	10.857	1.00	0.00
ATOM	2317	CB	TYR	151	3.268	11.268	13.488	1.00	0.00
ATOM	2318	CG	TYR	151	4.060	11.174	14.776	1.00	0.00
ATOM	2319	CD1	TYR	151	5.031	12.116	15.095	1.00	0.00
ATOM	2320	CD2	TYR	151	3.828	10.145	15.679	1.00	0.00
ATOM	2321	CE1	TYR	151	5.743	12.037	16.275	1.00	0.00
ATOM	2322	CE2	TYR	151	4.539	10.057	16.861	1.00	0.00
ATOM	2323	CZ	TYR	151	5.494	11.005	17.155	1.00	0.00
ATOM	2324	OH	TYR	151	6.188	10.930	18.340	1.00	0.00
ATOM	2327	H	TYR	151	1.350	13.206	12.623	1.00	0.00
ATOM	2328	HA	TYR	151	4.248	13.144	13.165	1.00	0.00
ATOM	2329	1HB	TYR	151	3.620	10.492	12.824	1.00	0.00
ATOM	2330	2HB	TYR	151	2.232	11.088	13.724	1.00	0.00
ATOM	2331	HD1	TYR	151	5.225	12.924	14.403	1.00	0.00
ATOM	2332	HD2	TYR	151	3.080	9.402	15.447	1.00	0.00
ATOM	2333	HE1	TYR	151	6.492	12.780	16.505	1.00	0.00
ATOM	2334	HE2	TYR	151	4.340	9.249	17.549	1.00	0.00
ATOM	2335	HH	TYR	151	7.055	10.516	18.193	1.00	0.00
ATOM	2336	N	GLY	152	3.181	13.377	10.490	1.00	0.00
ATOM	2337	CA	GLY	152	3.324	13.249	9.056	1.00	0.00
ATOM	2338	C	GLY	152	4.457	14.087	8.510	1.00	0.00
ATOM	2339	O	GLY	152	5.559	14.081	9.053	1.00	0.00
ATOM	2340	H	GLY	152	2.787	14.188	10.877	1.00	0.00
ATOM	2341	1HA	GLY	152	2.403	13.558	8.584	1.00	0.00
ATOM	2342	2HA	GLY	152	3.509	12.213	8.814	1.00	0.00
ATOM	2343	N	ASP	153	4.183	14.809	7.435	1.00	0.00
ATOM	2344	CA	ASP	153	5.191	15.661	6.813	1.00	0.00
ATOM	2349	C	ASP	153	5.285	16.991	7.548	1.00	0.00
ATOM	2350	O	ASP	153	6.374	17.494	7.816	1.00	0.00
ATOM	2345	CB	ASP	153	4.853	15.899	5.341	1.00	0.00
ATOM	2346	CG	ASP	153	5.901	15.329	4.407	1.00	0.00
ATOM	2347	OD1	ASP	153	7.079	15.714	4.525	1.00	0.00
ATOM	2348	OD2	ASP	153	5.548	14.488	3.551	1.00	0.00
ATOM	2351	H	ASP	153	3.284	14.772	7.052	1.00	0.00
ATOM	2352	HA	ASP	153	6.143	15.155	6.880	1.00	0.00
ATOM	2353	1HB	ASP	153	4.777	16.962	5.162	1.00	0.00
ATOM	2354	2HB	ASP	153	3.905	15.433	5.114	1.00	0.00
ATOM	2355	N	GLY	154	4.129	17.549	7.882	1.00	0.00
ATOM	2356	CA	GLY	154	4.091	18.814	8.590	1.00	0.00
ATOM	2357	C	GLY	154	4.155	18.638	10.092	1.00	0.00
ATOM	2358	O	GLY	154	3.324	19.170	10.822	1.00	0.00
ATOM	2359	H	GLY	154	3.295	17.098	7.649	1.00	0.00
ATOM	2360	1HA	GLY	154	3.176	19.328	8.336	1.00	0.00
ATOM	2361	2HA	GLY	154	4.929	19.417	8.272	1.00	0.00
ATOM	2362	N	ALA	155	5.153	17.895	10.550	1.00	0.00
ATOM	2363	CA	ALA	155	5.344	17.646	11.968	1.00	0.00
ATOM	2365	C	ALA	155	6.118	18.793	12.600	1.00	0.00
ATOM	2366	O	ALA	155	7.304	18.667	12.911	1.00	0.00
ATOM	2364	CB	ALA	155	6.063	16.321	12.182	1.00	0.00
ATOM	2367	H	ALA	155	5.786	17.513	9.913	1.00	0.00
ATOM	2368	HA	ALA	155	4.370	17.583	12.432	1.00	0.00



ATOM	2369	1HB	ALA	155	6.116	15.785	11.246	1.00	0.00
ATOM	2370	2HB	ALA	155	5.522	15.729	12.905	1.00	0.00
ATOM	2371	3HB	ALA	155	7.063	16.509	12.545	1.00	0.00
ATOM	2372	N	LEU	156	5.438	19.916	12.765	1.00	0.00
ATOM	2373	CA	LEU	156	6.031	21.112	13.339	1.00	0.00
ATOM	2378	C	LEU	156	6.476	20.877	14.783	1.00	0.00
ATOM	2379	O	LEU	156	6.167	19.843	15.382	1.00	0.00
ATOM	2374	CB	LEU	156	5.035	22.271	13.269	1.00	0.00
ATOM	2375	CG	LEU	156	3.595	21.929	13.659	1.00	0.00
ATOM	2376	CD1	LEU	156	3.044	22.974	14.613	1.00	0.00
ATOM	2377	CD2	LEU	156	2.712	21.828	12.425	1.00	0.00
ATOM	2380	H	LEU	156	4.505	19.947	12.478	1.00	0.00
ATOM	2381	HA	LEU	156	6.898	21.363	12.748	1.00	0.00
ATOM	2382	1HB	LEU	156	5.029	22.651	12.259	1.00	0.00
ATOM	2383	2HB	LEU	156	5.384	23.046	13.924	1.00	0.00
ATOM	2384	HG	LEU	156	3.583	20.973	14.164	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.789	23.737	14.781	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.790	22.505	15.551	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.160	23.422	14.184	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.191	22.763	12.277	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.994	21.033	12.560	1.00	0.00
ATOM	2390	3HD2	LEU	156	3.325	21.616	11.560	1.00	0.00
ATOM	2391	N	GLU	157	7.214	21.839	15.327	1.00	0.00
ATOM	2392	CA	GLU	157	7.731	21.748	16.686	1.00	0.00
ATOM	2398	C	GLU	157	6.624	21.532	17.717	1.00	0.00
ATOM	2399	O	GLU	157	6.830	20.843	18.719	1.00	0.00
ATOM	2393	CB	GLU	157	8.521	23.004	17.028	1.00	0.00
ATOM	2394	CG	GLU	157	9.686	23.267	16.087	1.00	0.00
ATOM	2395	CD	GLU	157	9.800	24.728	15.704	1.00	0.00
ATOM	2396	OE1	GLU	157	8.772	25.431	15.737	1.00	0.00
ATOM	2397	OE2	GLU	157	10.918	25.180	15.379	1.00	0.00
ATOM	2400	H	GLU	157	7.433	22.632	14.793	1.00	0.00
ATOM	2401	HA	GLU	157	8.399	20.909	16.723	1.00	0.00
ATOM	2402	1HB	GLU	157	8.909	22.908	18.027	1.00	0.00
ATOM	2403	2HB	GLU	157	7.857	23.848	16.988	1.00	0.00
ATOM	2404	1HG	GLU	157	9.546	22.683	15.188	1.00	0.00
ATOM	2405	2HG	GLU	157	10.601	22.964	16.573	1.00	0.00
ATOM	2406	N	GLU	158	5.455	22.111	17.471	1.00	0.00
ATOM	2407	CA	GLU	158	4.331	21.965	18.392	1.00	0.00
ATOM	2413	C	GLU	158	3.760	20.556	18.318	1.00	0.00
ATOM	2414	O	GLU	158	3.496	19.933	19.341	1.00	0.00
ATOM	2408	CB	GLU	158	3.236	22.986	18.086	1.00	0.00
ATOM	2409	CG	GLU	158	3.558	24.389	18.569	1.00	0.00
ATOM	2410	CD	GLU	158	2.325	25.258	18.702	1.00	0.00
ATOM	2411	OE1	GLU	158	1.589	25.104	19.696	1.00	0.00
ATOM	2412	OE2	GLU	158	2.095	26.109	17.815	1.00	0.00
ATOM	2415	H	GLU	158	5.344	22.644	16.655	1.00	0.00
ATOM	2416	HA	GLU	158	4.701	22.136	19.392	1.00	0.00
ATOM	2417	1HB	GLU	158	2.320	22.666	18.562	1.00	0.00
ATOM	2418	2HB	GLU	158	3.082	23.023	17.017	1.00	0.00
ATOM	2419	1HG	GLU	158	4.232	24.853	17.863	1.00	0.00
ATOM	2420	2HG	GLU	158	4.038	24.323	19.534	1.00	0.00
ATOM	2421	N	ALA	159	3.581	20.061	17.101	1.00	0.00
ATOM	2422	CA	ALA	159	3.044	18.722	16.890	1.00	0.00
ATOM	2424	C	ALA	159	3.958	17.659	17.491	1.00	0.00
ATOM	2425	O	ALA	159	3.491	16.709	18.118	1.00	0.00
ATOM	2423	CB	ALA	159	2.841	18.466	15.403	1.00	0.00
ATOM	2426	H	ALA	159	3.820	20.607	16.324	1.00	0.00
ATOM	2427	HA	ALA	159	2.080	18.670	17.374	1.00	0.00
ATOM	2428	1HB	ALA	159	3.790	18.229	14.945	1.00	0.00
ATOM	2429	2HB	ALA	159	2.427	19.348	14.938	1.00	0.00
ATOM	2430	3HB	ALA	159	2.161	17.637	15.271	1.00	0.00
ATOM	2431	N	ARG	160	5.260	17.827	17.292	1.00	0.00
ATOM	2432	CA	ARG	160	6.245	16.879	17.807	1.00	0.00
ATOM	2440	C	ARG	160	6.223	16.811	19.335	1.00	0.00
ATOM	2441	O	ARG	160	6.149	15.725	19.912	1.00	0.00
ATOM	2433	CB	ARG	160	7.644	17.254	17.322	1.00	0.00
ATOM	2434	CG	ARG	160	8.188	16.309	16.261	1.00	0.00
ATOM	2435	CD	ARG	160	9.496	16.814	15.680	1.00	0.00
ATOM	2436	NE	ARG	160	9.286	17.871	14.692	1.00	0.00
ATOM	2437	CZ	ARG	160	10.204	18.781	14.368	1.00	0.00
ATOM	2438	NH1	ARG	160	11.395	18.768	14.955	1.00	0.00
ATOM	2439	NH2	ARG	160	9.923	19.699	13.452	1.00	0.00



ATOM	2442	H	ARG	160	5.566	18.606	16.777	1.00	0.00
ATOM	2443	HA	ARG	160	5.995	15.904	17.416	1.00	0.00
ATOM	2444	1HB	ARG	160	8.319	17.242	18.164	1.00	0.00
ATOM	2445	2HB	ARG	160	7.616	18.251	16.908	1.00	0.00
ATOM	2446	1HG	ARG	160	7.461	16.220	15.466	1.00	0.00
ATOM	2447	2HG	ARG	160	8.356	15.340	16.708	1.00	0.00
ATOM	2448	1HD	ARG	160	10.008	15.989	15.208	1.00	0.00
ATOM	2449	2HD	ARG	160	10.105	17.202	16.484	1.00	0.00
ATOM	2450	HE	ARG	160	8.409	17.900	14.238	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.611	18.075	15.643	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.096	19.455	14.708	1.00	0.00
ATOM	2453	1HH2	ARG	160	9.022	19.708	13.005	1.00	0.00
ATOM	2454	2HH2	ARG	160	10.616	20.388	13.189	1.00	0.00
ATOM	2455	N	ARG	161	6.290	17.969	19.988	1.00	0.00
ATOM	2456	CA	ARG	161	6.282	18.014	21.449	1.00	0.00
ATOM	2464	C	ARG	161	4.939	17.548	22.003	1.00	0.00
ATOM	2465	O	ARG	161	4.885	16.896	23.046	1.00	0.00
ATOM	2457	CB	ARG	161	6.619	19.416	21.963	1.00	0.00
ATOM	2458	CG	ARG	161	5.570	20.462	21.643	1.00	0.00
ATOM	2459	CD	ARG	161	5.948	21.820	22.205	1.00	0.00
ATOM	2460	NE	ARG	161	6.958	22.488	21.387	1.00	0.00
ATOM	2461	CZ	ARG	161	7.137	23.808	21.360	1.00	0.00
ATOM	2462	NH1	ARG	161	6.385	24.602	22.112	1.00	0.00
ATOM	2463	NH2	ARG	161	8.079	24.330	20.591	1.00	0.00
ATOM	2466	H	ARG	161	6.351	18.806	19.480	1.00	0.00
ATOM	2467	HA	ARG	161	7.043	17.331	21.792	1.00	0.00
ATOM	2468	1HB	ARG	161	7.555	19.730	21.526	1.00	0.00
ATOM	2469	2HB	ARG	161	6.733	19.372	23.036	1.00	0.00
ATOM	2470	1HG	ARG	161	4.626	20.157	22.069	1.00	0.00
ATOM	2471	2HG	ARG	161	5.472	20.539	20.571	1.00	0.00
ATOM	2472	1HD	ARG	161	6.341	21.685	23.202	1.00	0.00
ATOM	2473	2HD	ARG	161	5.066	22.439	22.246	1.00	0.00
ATOM	2474	HE	ARG	161	7.530	21.919	20.828	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.674	24.212	22.712	1.00	0.00
ATOM	2476	2HH1	ARG	161	6.514	25.602	22.084	1.00	0.00
ATOM	2477	1HH2	ARG	161	8.656	23.740	20.028	1.00	0.00
ATOM	2478	2HH2	ARG	161	8.226	25.331	20.576	1.00	0.00
ATOM	2479	N	LEU	162	3.860	17.869	21.294	1.00	0.00
ATOM	2480	CA	LEU	162	2.526	17.470	21.715	1.00	0.00
ATOM	2485	C	LEU	162	2.367	15.959	21.610	1.00	0.00
ATOM	2486	O	LEU	162	1.620	15.355	22.368	1.00	0.00
ATOM	2481	CB	LEU	162	1.463	18.168	20.866	1.00	0.00
ATOM	2482	CG	LEU	162	0.814	19.391	21.518	1.00	0.00
ATOM	2483	CD1	LEU	162	0.176	20.281	20.465	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.216	18.961	22.551	1.00	0.00
ATOM	2487	H	LEU	162	3.966	18.383	20.464	1.00	0.00
ATOM	2488	HA	LEU	162	2.402	17.763	22.748	1.00	0.00
ATOM	2489	1HB	LEU	162	0.687	17.455	20.638	1.00	0.00
ATOM	2490	2HB	LEU	162	1.924	18.482	19.941	1.00	0.00
ATOM	2491	HG	LEU	162	1.575	19.967	22.023	1.00	0.00
ATOM	2492	1HD1	LEU	162	0.581	21.279	20.545	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.893	20.314	20.620	1.00	0.00
ATOM	2494	3HD1	LEU	162	0.386	19.885	19.482	1.00	0.00
ATOM	2495	1HD2	LEU	162	0.184	19.117	23.543	1.00	0.00
ATOM	2496	2HD2	LEU	162	-0.446	17.914	22.417	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.114	19.546	22.429	1.00	0.00
ATOM	2498	N	ARG	163	3.079	15.353	20.669	1.00	0.00
ATOM	2499	CA	ARG	163	3.015	13.914	20.475	1.00	0.00
ATOM	2507	C	ARG	163	3.662	13.188	21.645	1.00	0.00
ATOM	2508	O	ARG	163	3.080	12.251	22.200	1.00	0.00
ATOM	2500	CB	ARG	163	3.701	13.519	19.166	1.00	0.00
ATOM	2501	CG	ARG	163	2.772	13.525	17.960	1.00	0.00
ATOM	2502	CD	ARG	163	1.402	12.952	18.295	1.00	0.00
ATOM	2503	NE	ARG	163	1.239	11.587	17.798	1.00	0.00
ATOM	2504	CZ	ARG	163	1.555	10.488	18.490	1.00	0.00
ATOM	2505	NH1	ARG	163	2.064	10.581	19.717	1.00	0.00
ATOM	2506	NH2	ARG	163	1.360	9.291	17.949	1.00	0.00
ATOM	2509	H	ARG	163	3.664	15.890	20.089	1.00	0.00
ATOM	2510	HA	ARG	163	1.974	13.631	20.428	1.00	0.00
ATOM	2511	1HB	ARG	163	4.110	12.526	19.273	1.00	0.00
ATOM	2512	2HB	ARG	163	4.508	14.212	18.974	1.00	0.00
ATOM	2513	1HG	ARG	163	3.218	12.932	17.175	1.00	0.00
ATOM	2514	2HG	ARG	163	2.651	14.542	17.617	1.00	0.00



ATOM	2515	1HD	ARG	163	0.644	13.579	17.848	1.00	0.00
ATOM	2516	2HD	ARG	163	1.277	12.950	19.365	1.00	0.00
ATOM	2517	HE	ARG	163	0.871	11.486	16.892	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.214	11.478	20.136	1.00	0.00
ATOM	2519	2HH1	ARG	163	2.315	9.754	20.225	1.00	0.00
ATOM	2520	1HH2	ARG	163	0.979	9.211	17.025	1.00	0.00
ATOM	2521	2HH2	ARG	163	1.584	8.459	18.463	1.00	0.00
ATOM	2522	N	GLU	164	4.858	13.630	22.014	1.00	0.00
ATOM	2523	CA	GLU	164	5.589	13.029	23.122	1.00	0.00
ATOM	2529	C	GLU	164	4.878	13.299	24.442	1.00	0.00
ATOM	2530	O	GLU	164	4.717	12.402	25.269	1.00	0.00
ATOM	2524	CB	GLU	164	7.018	13.566	23.171	1.00	0.00
ATOM	2525	CG	GLU	164	8.079	12.483	23.278	1.00	0.00
ATOM	2526	CD	GLU	164	9.384	13.012	23.826	1.00	0.00
ATOM	2527	OE1	GLU	164	9.402	14.156	24.324	1.00	0.00
ATOM	2528	OE2	GLU	164	10.397	12.285	23.762	1.00	0.00
ATOM	2531	H	GLU	164	5.259	14.383	21.528	1.00	0.00
ATOM	2532	HA	GLU	164	5.620	11.961	22.958	1.00	0.00
ATOM	2533	1HB	GLU	164	7.115	14.218	24.027	1.00	0.00
ATOM	2534	2HB	GLU	164	7.207	14.137	22.273	1.00	0.00
ATOM	2535	1HG	GLU	164	8.259	12.070	22.294	1.00	0.00
ATOM	2536	2HG	GLU	164	7.720	11.702	23.933	1.00	0.00
ATOM	2537	N	GLY	165	4.437	14.537	24.625	1.00	0.00
ATOM	2538	CA	GLY	165	3.735	14.900	25.841	1.00	0.00
ATOM	2539	C	GLY	165	2.394	14.208	25.949	1.00	0.00
ATOM	2540	O	GLY	165	1.871	14.013	27.043	1.00	0.00
ATOM	2541	H	GLY	165	4.583	15.212	23.925	1.00	0.00
ATOM	2542	1HA	GLY	165	3.579	15.969	25.852	1.00	0.00
ATOM	2543	2HA	GLY	165	4.339	14.626	26.693	1.00	0.00
ATOM	2544	N	ASN	166	1.833	13.841	24.805	1.00	0.00
ATOM	2545	CA	ASN	166	0.540	13.176	24.770	1.00	0.00
ATOM	2550	C	ASN	166	0.624	11.776	25.339	1.00	0.00
ATOM	2551	O	ASN	166	-0.167	11.404	26.208	1.00	0.00
ATOM	2546	CB	ASN	166	0.002	13.105	23.343	1.00	0.00
ATOM	2547	CG	ASN	166	-1.434	13.574	23.255	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.091	13.783	24.271	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.932	13.737	22.040	1.00	0.00
ATOM	2552	H	ASN	166	2.296	14.030	23.962	1.00	0.00
ATOM	2553	HA	ASN	166	-0.144	13.754	25.372	1.00	0.00
ATOM	2554	1HB	ASN	166	0.051	12.085	22.995	1.00	0.00
ATOM	2555	2HB	ASN	166	0.608	13.727	22.702	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.357	13.552	21.274	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.866	14.028	21.960	1.00	0.00
ATOM	2558	N	TRP	167	1.575	10.992	24.849	1.00	0.00
ATOM	2559	CA	TRP	167	1.723	9.629	25.323	1.00	0.00
ATOM	2570	C	TRP	167	2.285	9.595	26.733	1.00	0.00
ATOM	2571	O	TRP	167	2.102	8.614	27.439	1.00	0.00
ATOM	2560	CB	TRP	167	2.547	8.755	24.358	1.00	0.00
ATOM	2561	CG	TRP	167	4.003	9.103	24.233	1.00	0.00
ATOM	2562	CD1	TRP	167	4.604	9.712	23.172	1.00	0.00
ATOM	2563	CD2	TRP	167	5.047	8.824	25.177	1.00	0.00
ATOM	2564	NE1	TRP	167	5.951	9.847	23.403	1.00	0.00
ATOM	2565	CE2	TRP	167	6.247	9.313	24.629	1.00	0.00
ATOM	2566	CE3	TRP	167	5.080	8.221	26.439	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.464	9.214	25.296	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.288	8.124	27.098	1.00	0.00
ATOM	2569	CH2	TRP	167	7.465	8.619	26.526	1.00	0.00
ATOM	2572	H	TRP	167	2.176	11.334	24.159	1.00	0.00
ATOM	2573	HA	TRP	167	0.723	9.216	25.369	1.00	0.00
ATOM	2574	1HB	TRP	167	2.107	8.824	23.371	1.00	0.00
ATOM	2575	2HB	TRP	167	2.489	7.731	24.688	1.00	0.00
ATOM	2576	HD1	TRP	167	4.084	10.040	22.285	1.00	0.00
ATOM	2577	HE1	TRP	167	6.596	10.262	22.791	1.00	0.00
ATOM	2578	HE3	TRP	167	4.176	7.835	26.896	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.383	9.591	24.870	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.334	7.661	28.073	1.00	0.00
ATOM	2581	HH2	TRP	167	8.388	8.521	27.079	1.00	0.00
ATOM	2582	N	ALA	168	2.944	10.667	27.151	1.00	0.00
ATOM	2583	CA	ALA	168	3.497	10.726	28.497	1.00	0.00
ATOM	2585	C	ALA	168	2.393	10.524	29.527	1.00	0.00
ATOM	2586	O	ALA	168	2.568	9.822	30.523	1.00	0.00
ATOM	2584	CB	ALA	168	4.210	12.053	28.723	1.00	0.00
ATOM	2587	H	ALA	168	3.050	11.436	26.550	1.00	0.00



ATOM	2588	HA	ALA	168	4.220	9.929	28.597	1.00	0.00
ATOM	2589	1HB	ALA	168	3.879	12.485	29.656	1.00	0.00
ATOM	2590	2HB	ALA	168	3.979	12.728	27.913	1.00	0.00
ATOM	2591	3HB	ALA	168	5.276	11.887	28.762	1.00	0.00
ATOM	2592	N	SER	169	1.256	11.149	29.276	1.00	0.00
ATOM	2593	CA	SER	169	0.116	11.057	30.168	1.00	0.00
ATOM	2596	C	SER	169	-0.763	9.834	29.876	1.00	0.00
ATOM	2597	O	SER	169	-1.380	9.283	30.785	1.00	0.00
ATOM	2594	CB	SER	169	-0.715	12.336	30.057	1.00	0.00
ATOM	2595	OG	SER	169	-0.052	13.298	29.247	1.00	0.00
ATOM	2598	H	SER	169	1.183	11.700	28.467	1.00	0.00
ATOM	2599	HA	SER	169	0.492	10.976	31.176	1.00	0.00
ATOM	2600	1HB	SER	169	-0.865	12.753	31.042	1.00	0.00
ATOM	2601	2HB	SER	169	-1.673	12.107	29.613	1.00	0.00
ATOM	2602	HG	SER	169	-0.525	13.396	28.416	1.00	0.00
ATOM	2603	N	VAL	170	-0.856	9.430	28.607	1.00	0.00
ATOM	2604	CA	VAL	170	-1.724	8.303	28.245	1.00	0.00
ATOM	2608	C	VAL	170	-1.050	6.933	28.365	1.00	0.00
ATOM	2609	O	VAL	170	-1.713	5.938	28.652	1.00	0.00
ATOM	2605	CB	VAL	170	-2.313	8.456	26.825	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.208	9.683	26.746	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.226	8.521	25.769	1.00	0.00
ATOM	2610	H	VAL	170	-0.366	9.917	27.904	1.00	0.00
ATOM	2611	HA	VAL	170	-2.555	8.318	28.936	1.00	0.00
ATOM	2612	HB	VAL	170	-2.916	7.587	26.622	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.092	10.272	27.642	1.00	0.00
ATOM	2614	2HG1	VAL	170	-4.238	9.374	26.648	1.00	0.00
ATOM	2615	3HG1	VAL	170	-2.928	10.278	25.885	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.515	9.218	24.995	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.084	7.542	25.336	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.302	8.851	26.223	1.00	0.00
ATOM	2619	N	ARG	171	0.250	6.866	28.143	1.00	0.00
ATOM	2620	CA	ARG	171	0.960	5.596	28.230	1.00	0.00
ATOM	2628	C	ARG	171	1.102	5.166	29.682	1.00	0.00
ATOM	2629	O	ARG	171	1.096	3.976	29.992	1.00	0.00
ATOM	2621	CB	ARG	171	2.337	5.707	27.570	1.00	0.00
ATOM	2622	CG	ARG	171	2.951	4.373	27.178	1.00	0.00
ATOM	2623	CD	ARG	171	4.131	4.564	26.236	1.00	0.00
ATOM	2624	NE	ARG	171	5.158	3.530	26.422	1.00	0.00
ATOM	2625	CZ	ARG	171	6.434	3.784	26.731	1.00	0.00
ATOM	2626	NH1	ARG	171	6.850	5.035	26.881	1.00	0.00
ATOM	2627	NH2	ARG	171	7.293	2.780	26.886	1.00	0.00
ATOM	2630	H	ARG	171	0.748	7.684	27.913	1.00	0.00
ATOM	2631	HA	ARG	171	0.377	4.854	27.704	1.00	0.00
ATOM	2632	1HB	ARG	171	3.011	6.201	28.255	1.00	0.00
ATOM	2633	2HB	ARG	171	2.244	6.308	26.677	1.00	0.00
ATOM	2634	1HG	ARG	171	2.201	3.772	26.684	1.00	0.00
ATOM	2635	2HG	ARG	171	3.293	3.868	28.069	1.00	0.00
ATOM	2636	1HD	ARG	171	4.570	5.533	26.422	1.00	0.00
ATOM	2637	2HD	ARG	171	3.771	4.524	25.217	1.00	0.00
ATOM	2638	HE	ARG	171	4.875	2.596	26.316	1.00	0.00
ATOM	2639	1HH1	ARG	171	6.210	5.796	26.764	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.813	5.229	27.124	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.988	1.834	26.776	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.257	2.965	27.121	1.00	0.00
ATOM	2643	N	THR	172	1.235	6.144	30.564	1.00	0.00
ATOM	2644	CA	THR	172	1.390	5.878	31.982	1.00	0.00
ATOM	2648	C	THR	172	0.048	5.712	32.684	1.00	0.00
ATOM	2649	O	THR	172	-0.042	5.006	33.689	1.00	0.00
ATOM	2645	CB	THR	172	2.205	6.992	32.655	1.00	0.00
ATOM	2646	OG1	THR	172	3.141	7.534	31.712	1.00	0.00
ATOM	2647	CG2	THR	172	2.953	6.468	33.872	1.00	0.00
ATOM	2650	H	THR	172	1.239	7.072	30.251	1.00	0.00
ATOM	2651	HA	THR	172	1.937	4.956	32.084	1.00	0.00
ATOM	2652	HB	THR	172	1.529	7.768	32.971	1.00	0.00
ATOM	2653	HG1	THR	172	2.917	8.459	31.525	1.00	0.00
ATOM	2654	1HG2	THR	172	2.380	5.680	34.335	1.00	0.00
ATOM	2655	2HG2	THR	172	3.098	7.272	34.579	1.00	0.00
ATOM	2656	3HG2	THR	172	3.914	6.081	33.565	1.00	0.00
ATOM	2657	N	VAL	173	-0.998	6.342	32.162	1.00	0.00
ATOM	2658	CA	VAL	173	-2.317	6.225	32.773	1.00	0.00
ATOM	2662	C	VAL	173	-2.891	4.824	32.553	1.00	0.00
ATOM	2663	O	VAL	173	-3.694	4.337	33.346	1.00	0.00



ATOM	2659	CB	VAL	173	-3.290	7.314	32.253	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.902	6.942	30.911	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.377	7.594	33.279	1.00	0.00
ATOM	2664	H	VAL	173	-0.885	6.891	31.355	1.00	0.00
ATOM	2665	HA	VAL	173	-2.191	6.375	33.838	1.00	0.00
ATOM	2666	HB	VAL	173	-2.723	8.220	32.113	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.068	5.875	30.875	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.228	7.228	30.117	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.842	7.459	30.789	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.114	8.473	33.850	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.471	6.748	33.943	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.317	7.761	32.773	1.00	0.00
ATOM	2673	N	LEU	174	-2.453	4.176	31.482	1.00	0.00
ATOM	2674	CA	LEU	174	-2.905	2.823	31.166	1.00	0.00
ATOM	2679	C	LEU	174	-1.723	1.866	31.122	1.00	0.00
ATOM	2680	O	LEU	174	-1.645	0.984	30.265	1.00	0.00
ATOM	2675	CB	LEU	174	-3.663	2.808	29.841	1.00	0.00
ATOM	2676	CG	LEU	174	-4.655	3.950	29.675	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.690	4.430	28.234	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.041	3.529	30.136	1.00	0.00
ATOM	2681	H	LEU	174	-1.802	4.614	30.895	1.00	0.00
ATOM	2682	HA	LEU	174	-3.572	2.508	31.955	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.202	1.875	29.765	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.944	2.857	29.034	1.00	0.00
ATOM	2685	HG	LEU	174	-4.332	4.774	30.296	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.016	5.460	28.206	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.376	3.820	27.668	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.702	4.355	27.806	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.788	4.055	29.561	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.159	3.766	31.183	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.159	2.465	29.993	1.00	0.00
ATOM	2692	N	THR	175	-0.800	2.060	32.050	1.00	0.00
ATOM	2693	CA	THR	175	0.397	1.231	32.138	1.00	0.00
ATOM	2697	C	THR	175	0.054	-0.235	32.421	1.00	0.00
ATOM	2698	O	THR	175	0.784	-1.138	32.013	1.00	0.00
ATOM	2694	CB	THR	175	1.331	1.739	33.247	1.00	0.00
ATOM	2695	OG1	THR	175	0.575	2.485	34.213	1.00	0.00
ATOM	2696	CG2	THR	175	2.437	2.606	32.668	1.00	0.00
ATOM	2699	H	THR	175	-0.920	2.794	32.691	1.00	0.00
ATOM	2700	HA	THR	175	0.922	1.295	31.197	1.00	0.00
ATOM	2701	HB	THR	175	1.781	0.887	33.734	1.00	0.00
ATOM	2702	HG1	THR	175	0.600	3.428	33.992	1.00	0.00
ATOM	2703	1HG2	THR	175	2.008	3.506	32.253	1.00	0.00
ATOM	2704	2HG2	THR	175	2.953	2.062	31.891	1.00	0.00
ATOM	2705	3HG2	THR	175	3.135	2.868	33.449	1.00	0.00
ATOM	2706	N	GLY	176	-1.052	-0.460	33.123	1.00	0.00
ATOM	2707	CA	GLY	176	-1.467	-1.813	33.462	1.00	0.00
ATOM	2708	C	GLY	176	-2.268	-2.493	32.366	1.00	0.00
ATOM	2709	O	GLY	176	-3.239	-3.193	32.643	1.00	0.00
ATOM	2710	H	GLY	176	-1.590	0.302	33.424	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.069	-1.775	34.359	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.586	-2.404	33.662	1.00	0.00
ATOM	2713	N	ALA	177	-1.851	-2.302	31.123	1.00	0.00
ATOM	2714	CA	ALA	177	-2.524	-2.915	29.981	1.00	0.00
ATOM	2716	C	ALA	177	-1.695	-4.077	29.454	1.00	0.00
ATOM	2717	O	ALA	177	-1.960	-4.617	28.385	1.00	0.00
ATOM	2715	CB	ALA	177	-2.757	-1.884	28.888	1.00	0.00
ATOM	2718	H	ALA	177	-1.062	-1.742	30.968	1.00	0.00
ATOM	2719	HA	ALA	177	-3.486	-3.288	30.308	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.276	-2.210	27.979	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.343	-0.934	29.194	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.818	-1.775	28.716	1.00	0.00
ATOM	2723	N	VAL	178	-0.680	-4.453	30.219	1.00	0.00
ATOM	2724	CA	VAL	178	0.201	-5.551	29.847	1.00	0.00
ATOM	2728	C	VAL	178	-0.369	-6.887	30.327	1.00	0.00
ATOM	2729	O	VAL	178	0.269	-7.607	31.097	1.00	0.00
ATOM	2725	CB	VAL	178	1.621	-5.365	30.427	1.00	0.00
ATOM	2726	CG1	VAL	178	2.665	-5.908	29.470	1.00	0.00
ATOM	2727	CG2	VAL	178	1.900	-3.902	30.740	1.00	0.00
ATOM	2730	H	VAL	178	-0.519	-3.980	31.061	1.00	0.00
ATOM	2731	HA	VAL	178	0.274	-5.571	28.769	1.00	0.00
ATOM	2732	HB	VAL	178	1.684	-5.923	31.350	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.579	-5.341	29.573	1.00	0.00



ATOM	2734	2HG1	VAL	178	2.303	-5.825	28.456	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.859	-6.947	29.699	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.389	-3.825	31.700	1.00	0.00
ATOM	2737	2HG2	VAL	178	0.968	-3.355	30.766	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.539	-3.486	29.976	1.00	0.00
ATOM	2739	N	ALA	179	-1.579	-7.203	29.887	1.00	0.00
ATOM	2740	CA	ALA	179	-2.241	-8.440	30.287	1.00	0.00
ATOM	2742	C	ALA	179	-1.832	-9.612	29.398	1.00	0.00
ATOM	2743	O	ALA	179	-2.224	-10.754	29.643	1.00	0.00
ATOM	2741	CB	ALA	179	-3.752	-8.263	30.262	1.00	0.00
ATOM	2744	H	ALA	179	-2.048	-6.579	29.286	1.00	0.00
ATOM	2745	HA	ALA	179	-1.948	-8.657	31.304	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.142	-8.350	31.266	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.193	-9.025	29.636	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.993	-7.288	29.866	1.00	0.00
ATOM	2749	N	LEU	180	-1.043	-9.330	28.369	1.00	0.00
ATOM	2750	CA	LEU	180	-0.589	-10.370	27.454	1.00	0.00
ATOM	2755	C	LEU	180	0.688	-11.026	27.968	1.00	0.00
ATOM	2756	O	LEU	180	1.061	-12.117	27.530	1.00	0.00
ATOM	2751	CB	LEU	180	-0.340	-9.790	26.060	1.00	0.00
ATOM	2752	CG	LEU	180	-1.397	-8.809	25.556	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.859	-8.001	24.384	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.666	-9.546	25.157	1.00	0.00
ATOM	2757	H	LEU	180	-0.760	-8.404	28.220	1.00	0.00
ATOM	2758	HA	LEU	180	-1.365	-11.119	27.390	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.281	-10.611	25.361	1.00	0.00
ATOM	2760	2HB	LEU	180	0.614	-9.284	26.071	1.00	0.00
ATOM	2761	HG	LEU	180	-1.645	-8.120	26.350	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.243	-8.635	23.763	1.00	0.00
ATOM	2763	2HD1	LEU	180	-0.269	-7.177	24.756	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.685	-7.620	23.803	1.00	0.00
ATOM	2765	1HD2	LEU	180	-3.445	-8.830	24.933	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.984	-10.180	25.970	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.472	-10.151	24.283	1.00	0.00
ATOM	2768	N	GLY	181	1.357	-10.347	28.893	1.00	0.00
ATOM	2769	CA	GLY	181	2.591	-10.856	29.454	1.00	0.00
ATOM	2770	C	GLY	181	2.365	-11.978	30.443	1.00	0.00
ATOM	2771	O	GLY	181	2.226	-11.740	31.644	1.00	0.00
ATOM	2772	H	GLY	181	1.011	-9.481	29.190	1.00	0.00
ATOM	2773	1HA	GLY	181	3.107	-10.049	29.954	1.00	0.00
ATOM	2774	2HA	GLY	181	3.213	-11.222	28.651	1.00	0.00
ATOM	2775	N	ALA	182	2.335	-13.200	29.942	1.00	0.00
ATOM	2776	CA	ALA	182	2.137	-14.367	30.783	1.00	0.00
ATOM	2778	C	ALA	182	3.479	-14.982	31.149	1.00	0.00
ATOM	2779	O	ALA	182	4.398	-15.021	30.329	1.00	0.00
ATOM	2777	CB	ALA	182	1.253	-15.388	30.081	1.00	0.00
ATOM	2780	H	ALA	182	2.458	-13.324	28.976	1.00	0.00
ATOM	2781	HA	ALA	182	1.637	-14.048	31.686	1.00	0.00
ATOM	2782	1HB	ALA	182	1.210	-15.163	29.023	1.00	0.00
ATOM	2783	2HB	ALA	182	0.258	-15.350	30.497	1.00	0.00
ATOM	2784	3HB	ALA	182	1.666	-16.376	30.221	1.00	0.00
ATOM	2785	N	LEU	183	3.590	-15.457	32.377	1.00	0.00
ATOM	2790	CA	LEU	183	4.819	-16.069	32.853	1.00	0.00
ATOM	2791	C	LEU	183	4.586	-17.543	33.154	1.00	0.00
ATOM	2792	O	LEU	183	5.574	-18.274	33.373	1.00	0.00
ATOM	2786	CB	LEU	183	5.328	-15.344	34.104	1.00	0.00
ATOM	2787	CG	LEU	183	4.237	-14.809	35.034	1.00	0.00
ATOM	2788	CD1	LEU	183	4.320	-15.483	36.394	1.00	0.00
ATOM	2789	CD2	LEU	183	4.354	-13.298	35.177	1.00	0.00
ATOM	2793	OXT	LEU	183	3.414	-17.966	33.169	1.00	0.00
ATOM	2794	H	LEU	183	2.824	-15.401	32.984	1.00	0.00
ATOM	2795	HA	LEU	183	5.558	-15.985	32.069	1.00	0.00
ATOM	2796	1HB	LEU	183	5.938	-14.512	33.787	1.00	0.00
ATOM	2797	2HB	LEU	183	5.948	-16.030	34.664	1.00	0.00
ATOM	2798	HG	LEU	183	3.270	-15.033	34.610	1.00	0.00
ATOM	2799	1HD1	LEU	183	4.420	-16.551	36.262	1.00	0.00
ATOM	2800	2HD1	LEU	183	3.422	-15.272	36.956	1.00	0.00
ATOM	2801	3HD1	LEU	183	5.178	-15.105	36.932	1.00	0.00
ATOM	2802	1HD2	LEU	183	3.774	-12.974	36.028	1.00	0.00
ATOM	2803	2HD2	LEU	183	3.979	-12.823	34.284	1.00	0.00
ATOM	2804	3HD2	LEU	183	5.390	-13.028	35.321	1.00	0.00

ENDMDL  
MODEL



ATOM	3	N	GLY	-4	-36.610	9.546	-0.204	1.00	0.00
ATOM	4	CA	GLY	-4	-37.287	9.083	-1.440	1.00	0.00
ATOM	1	C	GLY	-4	-36.319	8.955	-2.597	1.00	0.00
ATOM	2	O	GLY	-4	-35.174	9.395	-2.493	1.00	0.00
ATOM	5	1HA	GLY	-4	-37.740	8.121	-1.254	1.00	0.00
ATOM	6	2HA	GLY	-4	-38.060	9.791	-1.703	1.00	0.00
ATOM	7	1HT	GLY	-4	-35.661	9.133	-0.142	1.00	0.00
ATOM	8	2HT	GLY	-4	-37.160	9.262	0.637	1.00	0.00
ATOM	9	3HT	GLY	-4	-36.524	10.586	-0.210	1.00	0.00
ATOM	10	N	PRO	-3	-36.744	8.347	-3.715	1.00	0.00
ATOM	11	CA	PRO	-3	-35.896	8.162	-4.894	1.00	0.00
ATOM	15	C	PRO	-3	-35.636	9.476	-5.628	1.00	0.00
ATOM	16	O	PRO	-3	-36.441	9.910	-6.456	1.00	0.00
ATOM	12	CB	PRO	-3	-36.697	7.201	-5.785	1.00	0.00
ATOM	13	CG	PRO	-3	-37.825	6.709	-4.937	1.00	0.00
ATOM	14	CD	PRO	-3	-38.081	7.782	-3.923	1.00	0.00
ATOM	17	HA	PRO	-3	-34.952	7.709	-4.631	1.00	0.00
ATOM	18	1HB	PRO	-3	-36.061	6.387	-6.100	1.00	0.00
ATOM	19	2HB	PRO	-3	-37.062	7.732	-6.652	1.00	0.00
ATOM	20	1HG	PRO	-3	-37.541	5.789	-4.448	1.00	0.00
ATOM	21	2HG	PRO	-3	-38.702	6.552	-5.548	1.00	0.00
ATOM	22	1HD	PRO	-3	-38.468	7.357	-3.008	1.00	0.00
ATOM	23	2HD	PRO	-3	-38.761	8.523	-4.317	1.00	0.00
ATOM	24	N	LEU	-2	-34.508	10.102	-5.312	1.00	0.00
ATOM	25	CA	LEU	-2	-34.128	11.365	-5.933	1.00	0.00
ATOM	30	C	LEU	-2	-33.800	11.156	-7.407	1.00	0.00
ATOM	31	O	LEU	-2	-34.110	11.995	-8.253	1.00	0.00
ATOM	26	CB	LEU	-2	-32.911	11.966	-5.216	1.00	0.00
ATOM	27	CG	LEU	-2	-33.220	13.012	-4.138	1.00	0.00
ATOM	28	CD1	LEU	-2	-34.332	13.945	-4.592	1.00	0.00
ATOM	29	CD2	LEU	-2	-33.591	12.337	-2.827	1.00	0.00
ATOM	32	H	LEU	-2	-33.917	9.703	-4.639	1.00	0.00
ATOM	33	HA	LEU	-2	-34.961	12.046	-5.849	1.00	0.00
ATOM	34	1HB	LEU	-2	-32.277	12.425	-5.958	1.00	0.00
ATOM	35	2HB	LEU	-2	-32.363	11.158	-4.752	1.00	0.00
ATOM	36	HG	LEU	-2	-32.337	13.609	-3.967	1.00	0.00
ATOM	37	1HD1	LEU	-2	-34.739	14.463	-3.736	1.00	0.00
ATOM	38	2HD1	LEU	-2	-35.111	13.372	-5.071	1.00	0.00
ATOM	39	3HD1	LEU	-2	-33.934	14.666	-5.292	1.00	0.00
ATOM	40	1HD2	LEU	-2	-33.543	13.057	-2.025	1.00	0.00
ATOM	41	2HD2	LEU	-2	-32.898	11.531	-2.630	1.00	0.00
ATOM	42	3HD2	LEU	-2	-34.593	11.940	-2.896	1.00	0.00
ATOM	43	N	GLY	-1	-33.170	10.027	-7.696	1.00	0.00
ATOM	44	CA	GLY	-1	-32.792	9.694	-9.050	1.00	0.00
ATOM	45	C	GLY	-1	-31.726	8.620	-9.061	1.00	0.00
ATOM	46	O	GLY	-1	-31.875	7.593	-8.400	1.00	0.00
ATOM	47	H	GLY	-1	-32.954	9.404	-6.971	1.00	0.00
ATOM	48	1HA	GLY	-1	-32.408	10.577	-9.539	1.00	0.00
ATOM	49	2HA	GLY	-1	-33.661	9.339	-9.585	1.00	0.00
ATOM	50	N	SER	0	-30.647	8.861	-9.789	1.00	0.00
ATOM	51	CA	SER	0	-29.549	7.910	-9.866	1.00	0.00
ATOM	54	C	SER	0	-28.707	7.946	-8.592	1.00	0.00
ATOM	55	O	SER	0	-28.360	9.020	-8.094	1.00	0.00
ATOM	52	CB	SER	0	-28.684	8.228	-11.085	1.00	0.00
ATOM	53	OG	SER	0	-29.396	9.036	-12.009	1.00	0.00
ATOM	56	H	SER	0	-30.578	9.704	-10.283	1.00	0.00
ATOM	57	HA	SER	0	-29.970	6.922	-9.980	1.00	0.00
ATOM	58	1HB	SER	0	-28.399	7.307	-11.573	1.00	0.00
ATOM	59	2HB	SER	0	-27.799	8.759	-10.767	1.00	0.00
ATOM	60	HG	SER	0	-29.831	8.467	-12.663	1.00	0.00
ATOM	61	N	MET	1	-28.375	6.772	-8.071	1.00	0.00
ATOM	62	CA	MET	1	-27.567	6.680	-6.863	1.00	0.00
ATOM	67	C	MET	1	-26.198	6.096	-7.186	1.00	0.00
ATOM	68	O	MET	1	-26.086	5.145	-7.959	1.00	0.00
ATOM	63	CB	MET	1	-28.266	5.824	-5.802	1.00	0.00
ATOM	64	CG	MET	1	-27.875	6.193	-4.378	1.00	0.00
ATOM	65	SD	MET	1	-28.367	4.947	-3.170	1.00	0.00
ATOM	66	CE	MET	1	-29.586	5.859	-2.225	1.00	0.00
ATOM	69	H	MET	1	-28.674	5.948	-8.511	1.00	0.00
ATOM	70	HA	MET	1	-27.433	7.679	-6.477	1.00	0.00
ATOM	71	1HB	MET	1	-28.013	4.788	-5.966	1.00	0.00
ATOM	72	2HB	MET	1	-29.334	5.946	-5.904	1.00	0.00
ATOM	73	1HG	MET	1	-28.347	7.129	-4.123	1.00	0.00



ATOM	74	2HG	MET	1	-26.801	6.310	-4.334	1.00	0.00
ATOM	75	1HE	MET	1	-30.526	5.327	-2.242	1.00	0.00
ATOM	76	2HE	MET	1	-29.719	6.838	-2.660	1.00	0.00
ATOM	77	3HE	MET	1	-29.248	5.961	-1.205	1.00	0.00
ATOM	78	N	ALA	2	-25.165	6.676	-6.599	1.00	0.00
ATOM	79	CA	ALA	2	-23.805	6.220	-6.828	1.00	0.00
ATOM	81	C	ALA	2	-23.328	5.334	-5.684	1.00	0.00
ATOM	82	O	ALA	2	-23.366	5.729	-4.518	1.00	0.00
ATOM	80	CB	ALA	2	-22.873	7.410	-7.000	1.00	0.00
ATOM	83	H	ALA	2	-25.322	7.437	-5.997	1.00	0.00
ATOM	84	HA	ALA	2	-23.794	5.646	-7.743	1.00	0.00
ATOM	85	1HB	ALA	2	-22.733	7.606	-8.052	1.00	0.00
ATOM	86	2HB	ALA	2	-21.919	7.189	-6.544	1.00	0.00
ATOM	87	3HB	ALA	2	-23.307	8.279	-6.526	1.00	0.00
ATOM	88	N	THR	3	-22.879	4.138	-6.027	1.00	0.00
ATOM	89	CA	THR	3	-22.389	3.191	-5.047	1.00	0.00
ATOM	93	C	THR	3	-20.861	3.206	-4.999	1.00	0.00
ATOM	94	O	THR	3	-20.201	3.009	-6.020	1.00	0.00
ATOM	90	CB	THR	3	-22.899	1.764	-5.358	1.00	0.00
ATOM	91	OG1	THR	3	-22.064	1.144	-6.348	1.00	0.00
ATOM	92	CG2	THR	3	-24.331	1.793	-5.875	1.00	0.00
ATOM	95	H	THR	3	-22.875	3.884	-6.970	1.00	0.00
ATOM	96	HA	THR	3	-22.771	3.485	-4.080	1.00	0.00
ATOM	97	HB	THR	3	-22.868	1.182	-4.454	1.00	0.00
ATOM	98	HG1	THR	3	-21.212	1.607	-6.382	1.00	0.00
ATOM	99	1HG2	THR	3	-25.013	1.859	-5.041	1.00	0.00
ATOM	100	2HG2	THR	3	-24.529	0.890	-6.433	1.00	0.00
ATOM	101	3HG2	THR	3	-24.465	2.651	-6.519	1.00	0.00
ATOM	102	N	PRO	4	-20.277	3.448	-3.814	1.00	0.00
ATOM	103	CA	PRO	4	-18.823	3.490	-3.643	1.00	0.00
ATOM	107	C	PRO	4	-18.172	2.141	-3.928	1.00	0.00
ATOM	108	O	PRO	4	-18.538	1.126	-3.333	1.00	0.00
ATOM	104	CB	PRO	4	-18.636	3.873	-2.168	1.00	0.00
ATOM	105	CG	PRO	4	-19.954	4.417	-1.730	1.00	0.00
ATOM	106	CD	PRO	4	-20.987	3.704	-2.552	1.00	0.00
ATOM	109	HA	PRO	4	-18.375	4.245	-4.273	1.00	0.00
ATOM	110	1HB	PRO	4	-17.856	4.615	-2.082	1.00	0.00
ATOM	111	2HB	PRO	4	-18.365	2.994	-1.601	1.00	0.00
ATOM	112	1HG	PRO	4	-19.995	5.480	-1.917	1.00	0.00
ATOM	113	2HG	PRO	4	-20.105	4.214	-0.680	1.00	0.00
ATOM	114	1HD	PRO	4	-21.847	4.335	-2.715	1.00	0.00
ATOM	115	2HD	PRO	4	-21.278	2.779	-2.075	1.00	0.00
ATOM	116	N	ALA	5	-17.213	2.134	-4.843	1.00	0.00
ATOM	117	CA	ALA	5	-16.517	0.909	-5.213	1.00	0.00
ATOM	119	C	ALA	5	-15.531	0.492	-4.127	1.00	0.00
ATOM	120	O	ALA	5	-15.438	-0.686	-3.777	1.00	0.00
ATOM	118	CB	ALA	5	-15.797	1.089	-6.540	1.00	0.00
ATOM	121	H	ALA	5	-16.969	2.979	-5.290	1.00	0.00
ATOM	122	HA	ALA	5	-17.255	0.128	-5.334	1.00	0.00
ATOM	123	1HB	ALA	5	-15.889	2.115	-6.864	1.00	0.00
ATOM	124	2HB	ALA	5	-16.237	0.436	-7.280	1.00	0.00
ATOM	125	3HB	ALA	5	-14.753	0.841	-6.419	1.00	0.00
ATOM	126	N	SER	6	-14.803	1.468	-3.600	1.00	0.00
ATOM	127	CA	SER	6	-13.821	1.226	-2.553	1.00	0.00
ATOM	130	C	SER	6	-13.509	2.525	-1.818	1.00	0.00
ATOM	131	O	SER	6	-13.701	3.611	-2.364	1.00	0.00
ATOM	128	CB	SER	6	-12.541	0.633	-3.143	1.00	0.00
ATOM	129	OG	SER	6	-12.746	-0.711	-3.544	1.00	0.00
ATOM	132	H	SER	6	-14.927	2.385	-3.927	1.00	0.00
ATOM	133	HA	SER	6	-14.249	0.524	-1.854	1.00	0.00
ATOM	134	1HB	SER	6	-11.758	0.660	-2.398	1.00	0.00
ATOM	135	2HB	SER	6	-12.240	1.211	-4.004	1.00	0.00
ATOM	136	HG	SER	6	-13.695	-0.902	-3.538	1.00	0.00
ATOM	137	N	ALA	7	-13.032	2.408	-0.585	1.00	0.00
ATOM	138	CA	ALA	7	-12.695	3.571	0.222	1.00	0.00
ATOM	140	C	ALA	7	-11.544	3.243	1.165	1.00	0.00
ATOM	141	O	ALA	7	-11.524	2.174	1.780	1.00	0.00
ATOM	139	CB	ALA	7	-13.912	4.044	1.009	1.00	0.00
ATOM	142	H	ALA	7	-12.901	1.515	-0.205	1.00	0.00
ATOM	143	HA	ALA	7	-12.391	4.366	-0.445	1.00	0.00
ATOM	144	1HB	ALA	7	-14.464	4.762	0.422	1.00	0.00
ATOM	145	2HB	ALA	7	-13.588	4.505	1.930	1.00	0.00
ATOM	146	3HB	ALA	7	-14.546	3.199	1.233	1.00	0.00



ATOM	147	N	PRO	8	-10.567	4.152	1.289	1.00	0.00
ATOM	148	CA	PRO	8	-9.400	3.967	2.154	1.00	0.00
ATOM	152	C	PRO	8	-9.729	4.230	3.624	1.00	0.00
ATOM	153	O	PRO	8	-9.087	5.051	4.279	1.00	0.00
ATOM	149	CB	PRO	8	-8.389	5.005	1.639	1.00	0.00
ATOM	150	CG	PRO	8	-9.029	5.661	0.453	1.00	0.00
ATOM	151	CD	PRO	8	-10.505	5.436	0.590	1.00	0.00
ATOM	154	HA	PRO	8	-8.986	2.974	2.053	1.00	0.00
ATOM	155	1HB	PRO	8	-7.471	4.507	1.362	1.00	0.00
ATOM	156	2HB	PRO	8	-8.185	5.724	2.419	1.00	0.00
ATOM	157	1HG	PRO	8	-8.662	5.210	-0.458	1.00	0.00
ATOM	158	2HG	PRO	8	-8.812	6.719	0.461	1.00	0.00
ATOM	159	1HD	PRO	8	-10.971	5.371	-0.382	1.00	0.00
ATOM	160	2HD	PRO	8	-10.955	6.221	1.178	1.00	0.00
ATOM	161	N	ASP	9	-10.733	3.529	4.132	1.00	0.00
ATOM	162	CA	ASP	9	-11.152	3.684	5.518	1.00	0.00
ATOM	167	C	ASP	9	-10.254	2.871	6.445	1.00	0.00
ATOM	168	O	ASP	9	-9.154	2.462	6.060	1.00	0.00
ATOM	163	CB	ASP	9	-12.612	3.250	5.689	1.00	0.00
ATOM	164	CG	ASP	9	-13.516	4.398	6.093	1.00	0.00
ATOM	165	OD1	ASP	9	-13.974	5.138	5.197	1.00	0.00
ATOM	166	OD2	ASP	9	-13.777	4.558	7.304	1.00	0.00
ATOM	169	H	ASP	9	-11.207	2.893	3.556	1.00	0.00
ATOM	170	HA	ASP	9	-11.063	4.730	5.775	1.00	0.00
ATOM	171	1HB	ASP	9	-12.666	2.488	6.453	1.00	0.00
ATOM	172	2HB	ASP	9	-12.972	2.845	4.756	1.00	0.00
ATOM	173	N	THR	10	-10.723	2.640	7.662	1.00	0.00
ATOM	174	CA	THR	10	-9.974	1.889	8.658	1.00	0.00
ATOM	178	C	THR	10	-9.609	0.492	8.165	1.00	0.00
ATOM	179	O	THR	10	-8.522	-0.001	8.448	1.00	0.00
ATOM	175	CB	THR	10	-10.770	1.783	9.968	1.00	0.00
ATOM	176	OG1	THR	10	-12.020	2.470	9.824	1.00	0.00
ATOM	177	CG2	THR	10	-9.991	2.381	11.129	1.00	0.00
ATOM	180	H	THR	10	-11.605	2.993	7.905	1.00	0.00
ATOM	181	HA	THR	10	-9.062	2.432	8.858	1.00	0.00
ATOM	182	HB	THR	10	-10.961	0.739	10.176	1.00	0.00
ATOM	183	HG1	THR	10	-12.727	1.819	9.657	1.00	0.00
ATOM	184	1HG2	THR	10	-9.058	1.851	11.248	1.00	0.00
ATOM	185	2HG2	THR	10	-10.570	2.296	12.036	1.00	0.00
ATOM	186	3HG2	THR	10	-9.789	3.424	10.928	1.00	0.00
ATOM	187	N	ARG	11	-10.507	-0.138	7.413	1.00	0.00
ATOM	188	CA	ARG	11	-10.253	-1.475	6.878	1.00	0.00
ATOM	196	C	ARG	11	-9.058	-1.457	5.932	1.00	0.00
ATOM	197	O	ARG	11	-8.249	-2.381	5.923	1.00	0.00
ATOM	189	CB	ARG	11	-11.493	-2.012	6.151	1.00	0.00
ATOM	190	CG	ARG	11	-11.287	-3.378	5.511	1.00	0.00
ATOM	191	CD	ARG	11	-12.072	-3.512	4.213	1.00	0.00
ATOM	192	NE	ARG	11	-11.260	-4.076	3.132	1.00	0.00
ATOM	193	CZ	ARG	11	-11.344	-5.338	2.712	1.00	0.00
ATOM	194	NH1	ARG	11	-12.170	-6.194	3.303	1.00	0.00
ATOM	195	NH2	ARG	11	-10.586	-5.743	1.705	1.00	0.00
ATOM	198	H	ARG	11	-11.357	0.308	7.212	1.00	0.00
ATOM	199	HA	ARG	11	-10.017	-2.125	7.707	1.00	0.00
ATOM	200	1HB	ARG	11	-11.772	-1.315	5.376	1.00	0.00
ATOM	201	2HB	ARG	11	-12.305	-2.089	6.859	1.00	0.00
ATOM	202	1HG	ARG	11	-11.617	-4.140	6.200	1.00	0.00
ATOM	203	2HG	ARG	11	-10.237	-3.511	5.300	1.00	0.00
ATOM	204	1HD	ARG	11	-12.420	-2.533	3.917	1.00	0.00
ATOM	205	2HD	ARG	11	-12.920	-4.157	4.386	1.00	0.00
ATOM	206	HE	ARG	11	-10.621	-3.473	2.687	1.00	0.00
ATOM	207	1HH1	ARG	11	-12.746	-5.896	4.077	1.00	0.00
ATOM	208	2HH1	ARG	11	-12.228	-7.147	2.982	1.00	0.00
ATOM	209	1HH2	ARG	11	-9.948	-5.096	1.262	1.00	0.00
ATOM	210	2HH2	ARG	11	-10.643	-6.693	1.368	1.00	0.00
ATOM	211	N	ALA	12	-8.938	-0.392	5.155	1.00	0.00
ATOM	212	CA	ALA	12	-7.826	-0.261	4.230	1.00	0.00
ATOM	214	C	ALA	12	-6.550	0.085	4.984	1.00	0.00
ATOM	215	O	ALA	12	-5.467	-0.365	4.624	1.00	0.00
ATOM	213	CB	ALA	12	-8.127	0.793	3.176	1.00	0.00
ATOM	216	H	ALA	12	-9.600	0.329	5.217	1.00	0.00
ATOM	217	HA	ALA	12	-7.695	-1.211	3.733	1.00	0.00
ATOM	218	1HB	ALA	12	-8.689	0.345	2.370	1.00	0.00
ATOM	219	2HB	ALA	12	-7.199	1.194	2.791	1.00	0.00



ATOM	220	3HB	ALA	12	-8.706	1.591	3.618	1.00	0.00
ATOM	221	N	LEU	13	-6.686	0.882	6.037	1.00	0.00
ATOM	222	CA	LEU	13	-5.536	1.281	6.838	1.00	0.00
ATOM	227	C	LEU	13	-5.037	0.126	7.710	1.00	0.00
ATOM	228	O	LEU	13	-3.830	-0.074	7.845	1.00	0.00
ATOM	223	CB	LEU	13	-5.882	2.502	7.694	1.00	0.00
ATOM	224	CG	LEU	13	-4.932	2.785	8.856	1.00	0.00
ATOM	225	CD1	LEU	13	-3.722	3.573	8.379	1.00	0.00
ATOM	226	CD2	LEU	13	-5.661	3.538	9.956	1.00	0.00
ATOM	229	H	LEU	13	-7.585	1.213	6.284	1.00	0.00
ATOM	230	HA	LEU	13	-4.747	1.553	6.152	1.00	0.00
ATOM	231	1HB	LEU	13	-6.876	2.366	8.096	1.00	0.00
ATOM	232	2HB	LEU	13	-5.889	3.371	7.049	1.00	0.00
ATOM	233	HG	LEU	13	-4.581	1.847	9.264	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.803	3.749	7.317	1.00	0.00
ATOM	235	2HD1	LEU	13	-2.822	3.011	8.584	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.681	4.519	8.899	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.226	4.349	9.523	1.00	0.00
ATOM	238	2HD2	LEU	13	-4.941	3.934	10.658	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.331	2.864	10.469	1.00	0.00
ATOM	240	N	VAL	14	-5.960	-0.641	8.291	1.00	0.00
ATOM	241	CA	VAL	14	-5.579	-1.773	9.134	1.00	0.00
ATOM	245	C	VAL	14	-4.870	-2.835	8.296	1.00	0.00
ATOM	246	O	VAL	14	-3.902	-3.450	8.744	1.00	0.00
ATOM	242	CB	VAL	14	-6.790	-2.393	9.892	1.00	0.00
ATOM	243	CG1	VAL	14	-7.683	-3.212	8.969	1.00	0.00
ATOM	244	CG2	VAL	14	-6.310	-3.246	11.059	1.00	0.00
ATOM	247	H	VAL	14	-6.913	-0.443	8.147	1.00	0.00
ATOM	248	HA	VAL	14	-4.879	-1.400	9.871	1.00	0.00
ATOM	249	HB	VAL	14	-7.385	-1.587	10.293	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.217	-4.165	8.768	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.827	-2.679	8.040	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.642	-3.372	9.443	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.020	-4.040	11.240	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.225	-2.631	11.943	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.346	-3.672	10.822	1.00	0.00
ATOM	256	N	ALA	15	-5.339	-3.026	7.066	1.00	0.00
ATOM	257	CA	ALA	15	-4.731	-3.992	6.162	1.00	0.00
ATOM	259	C	ALA	15	-3.397	-3.464	5.643	1.00	0.00
ATOM	260	O	ALA	15	-2.519	-4.234	5.257	1.00	0.00
ATOM	258	CB	ALA	15	-5.667	-4.304	5.004	1.00	0.00
ATOM	261	H	ALA	15	-6.107	-2.493	6.756	1.00	0.00
ATOM	262	HA	ALA	15	-4.557	-4.905	6.715	1.00	0.00
ATOM	263	1HB	ALA	15	-5.180	-4.059	4.072	1.00	0.00
ATOM	264	2HB	ALA	15	-6.570	-3.719	5.103	1.00	0.00
ATOM	265	3HB	ALA	15	-5.917	-5.355	5.016	1.00	0.00
ATOM	266	N	ASP	16	-3.261	-2.142	5.645	1.00	0.00
ATOM	267	CA	ASP	16	-2.044	-1.483	5.176	1.00	0.00
ATOM	272	C	ASP	16	-0.922	-1.604	6.203	1.00	0.00
ATOM	273	O	ASP	16	0.135	-2.162	5.913	1.00	0.00
ATOM	268	CB	ASP	16	-2.329	-0.005	4.882	1.00	0.00
ATOM	269	CG	ASP	16	-1.092	0.871	4.952	1.00	0.00
ATOM	270	OD1	ASP	16	-0.258	0.801	4.031	1.00	0.00
ATOM	271	OD2	ASP	16	-0.964	1.660	5.914	1.00	0.00
ATOM	274	H	ASP	16	-4.003	-1.590	5.966	1.00	0.00
ATOM	275	HA	ASP	16	-1.735	-1.968	4.265	1.00	0.00
ATOM	276	1HB	ASP	16	-3.050	0.363	5.599	1.00	0.00
ATOM	277	2HB	ASP	16	-2.745	0.079	3.890	1.00	0.00
ATOM	278	N	PHE	17	-1.158	-1.070	7.395	1.00	0.00
ATOM	279	CA	PHE	17	-0.165	-1.103	8.464	1.00	0.00
ATOM	287	C	PHE	17	0.226	-2.528	8.824	1.00	0.00
ATOM	288	O	PHE	17	1.407	-2.882	8.784	1.00	0.00
ATOM	280	CB	PHE	17	-0.675	-0.379	9.710	1.00	0.00
ATOM	281	CG	PHE	17	0.433	0.099	10.604	1.00	0.00
ATOM	282	CD1	PHE	17	1.532	0.759	10.078	1.00	0.00
ATOM	283	CD2	PHE	17	0.382	-0.125	11.971	1.00	0.00
ATOM	284	CE1	PHE	17	2.558	1.188	10.899	1.00	0.00
ATOM	285	CE2	PHE	17	1.406	0.300	12.795	1.00	0.00
ATOM	286	CZ	PHE	17	2.495	0.957	12.258	1.00	0.00
ATOM	289	H	PHE	17	-2.023	-0.631	7.557	1.00	0.00
ATOM	290	HA	PHE	17	0.714	-0.590	8.104	1.00	0.00
ATOM	291	1HB	PHE	17	-1.299	-1.051	10.282	1.00	0.00
ATOM	292	2HB	PHE	17	-1.257	0.479	9.410	1.00	0.00



ATOM	293	HD1	PHE	17	-0.469	-0.638	12.393	1.00	0.00
ATOM	294	HD2	PHE	17	1.583	0.941	9.014	1.00	0.00
ATOM	295	HE1	PHE	17	1.356	0.118	13.859	1.00	0.00
ATOM	296	HE2	PHE	17	3.409	1.702	10.476	1.00	0.00
ATOM	297	HZ	PHE	17	3.297	1.289	12.902	1.00	0.00
ATOM	298	N	VAL	18	-0.761	-3.342	9.173	1.00	0.00
ATOM	299	CA	VAL	18	-0.506	-4.728	9.538	1.00	0.00
ATOM	303	C	VAL	18	0.046	-5.491	8.341	1.00	0.00
ATOM	304	O	VAL	18	0.954	-6.305	8.479	1.00	0.00
ATOM	300	CB	VAL	18	-1.789	-5.418	10.061	1.00	0.00
ATOM	301	CG1	VAL	18	-1.527	-6.876	10.410	1.00	0.00
ATOM	302	CG2	VAL	18	-2.339	-4.673	11.268	1.00	0.00
ATOM	305	H	VAL	18	-1.682	-3.003	9.184	1.00	0.00
ATOM	306	HA	VAL	18	0.236	-4.736	10.329	1.00	0.00
ATOM	307	HB	VAL	18	-2.533	-5.388	9.279	1.00	0.00
ATOM	308	1HG1	VAL	18	-1.160	-6.944	11.423	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.791	-7.282	9.732	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.445	-7.437	10.322	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.750	-5.382	11.972	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.115	-3.993	10.948	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.544	-4.115	11.740	1.00	0.00
ATOM	314	N	GLY	19	-0.488	-5.199	7.162	1.00	0.00
ATOM	315	CA	GLY	19	-0.021	-5.850	5.957	1.00	0.00
ATOM	316	C	GLY	19	1.445	-5.575	5.699	1.00	0.00
ATOM	317	O	GLY	19	2.226	-6.500	5.499	1.00	0.00
ATOM	318	H	GLY	19	-1.195	-4.522	7.106	1.00	0.00
ATOM	319	1HA	GLY	19	-0.597	-5.490	5.118	1.00	0.00
ATOM	320	2HA	GLY	19	-0.168	-6.915	6.054	1.00	0.00
ATOM	321	N	TYR	20	1.813	-4.301	5.702	1.00	0.00
ATOM	322	CA	TYR	20	3.189	-3.887	5.468	1.00	0.00
ATOM	331	C	TYR	20	4.113	-4.440	6.546	1.00	0.00
ATOM	332	O	TYR	20	5.215	-4.889	6.255	1.00	0.00
ATOM	323	CB	TYR	20	3.294	-2.360	5.437	1.00	0.00
ATOM	324	CG	TYR	20	4.683	-1.855	5.112	1.00	0.00
ATOM	325	CD1	TYR	20	5.312	-2.218	3.928	1.00	0.00
ATOM	326	CD2	TYR	20	5.366	-1.021	5.988	1.00	0.00
ATOM	327	CE1	TYR	20	6.578	-1.765	3.624	1.00	0.00
ATOM	328	CE2	TYR	20	6.635	-0.563	5.689	1.00	0.00
ATOM	329	CZ	TYR	20	7.236	-0.938	4.507	1.00	0.00
ATOM	330	OH	TYR	20	8.497	-0.485	4.206	1.00	0.00
ATOM	333	H	TYR	20	1.131	-3.611	5.858	1.00	0.00
ATOM	334	HA	TYR	20	3.489	-4.278	4.506	1.00	0.00
ATOM	335	1HB	TYR	20	3.015	-1.968	6.405	1.00	0.00
ATOM	336	2HB	TYR	20	2.617	-1.975	4.689	1.00	0.00
ATOM	337	HD1	TYR	20	4.892	-0.730	6.913	1.00	0.00
ATOM	338	HD2	TYR	20	4.792	-2.866	3.237	1.00	0.00
ATOM	339	HE1	TYR	20	7.152	0.085	6.383	1.00	0.00
ATOM	340	HE2	TYR	20	7.048	-2.059	2.698	1.00	0.00
ATOM	341	HH	TYR	20	8.592	-0.417	3.246	1.00	0.00
ATOM	342	N	LYS	21	3.650	-4.398	7.789	1.00	0.00
ATOM	343	CA	LYS	21	4.427	-4.888	8.920	1.00	0.00
ATOM	349	C	LYS	21	4.670	-6.392	8.800	1.00	0.00
ATOM	350	O	LYS	21	5.773	-6.874	9.055	1.00	0.00
ATOM	344	CB	LYS	21	3.703	-4.564	10.233	1.00	0.00
ATOM	345	CG	LYS	21	4.354	-3.451	11.054	1.00	0.00
ATOM	346	CD	LYS	21	5.836	-3.276	10.733	1.00	0.00
ATOM	347	CE	LYS	21	6.247	-1.809	10.772	1.00	0.00
ATOM	348	NZ	LYS	21	7.719	-1.645	10.916	1.00	0.00
ATOM	351	H	LYS	21	2.756	-4.024	7.951	1.00	0.00
ATOM	352	HA	LYS	21	5.379	-4.380	8.909	1.00	0.00
ATOM	353	1HB	LYS	21	3.661	-5.454	10.840	1.00	0.00
ATOM	354	2HB	LYS	21	2.694	-4.258	10.000	1.00	0.00
ATOM	355	1HG	LYS	21	4.251	-3.689	12.102	1.00	0.00
ATOM	356	2HG	LYS	21	3.845	-2.522	10.846	1.00	0.00
ATOM	357	1HD	LYS	21	6.029	-3.669	9.745	1.00	0.00
ATOM	358	2HD	LYS	21	6.418	-3.821	11.461	1.00	0.00
ATOM	359	1HE	LYS	21	5.756	-1.334	11.610	1.00	0.00
ATOM	360	2HE	LYS	21	5.929	-1.335	9.855	1.00	0.00
ATOM	361	1HZ	LYS	21	8.011	-0.694	10.601	1.00	0.00
ATOM	362	2HZ	LYS	21	8.218	-2.354	10.343	1.00	0.00
ATOM	363	3HZ	LYS	21	7.998	-1.762	11.922	1.00	0.00
ATOM	364	N	LEU	22	3.637	-7.120	8.395	1.00	0.00
ATOM	365	CA	LEU	22	3.736	-8.565	8.221	1.00	0.00



ATOM	370	C	LEU	22	4.589	-8.881	7.004	1.00	0.00
ATOM	371	O	LEU	22	5.464	-9.740	7.051	1.00	0.00
ATOM	366	CB	LEU	22	2.346	-9.186	8.043	1.00	0.00
ATOM	367	CG	LEU	22	1.686	-9.713	9.319	1.00	0.00
ATOM	368	CD1	LEU	22	1.640	-8.632	10.383	1.00	0.00
ATOM	369	CD2	LEU	22	0.289	-10.217	9.010	1.00	0.00
ATOM	372	H	LEU	22	2.786	-6.674	8.197	1.00	0.00
ATOM	373	HA	LEU	22	4.204	-8.981	9.101	1.00	0.00
ATOM	374	1HB	LEU	22	2.430	-10.008	7.347	1.00	0.00
ATOM	375	2HB	LEU	22	1.695	-8.440	7.611	1.00	0.00
ATOM	376	HG	LEU	22	2.261	-10.539	9.711	1.00	0.00
ATOM	377	1HD1	LEU	22	2.392	-7.887	10.173	1.00	0.00
ATOM	378	2HD1	LEU	22	1.829	-9.073	11.351	1.00	0.00
ATOM	379	3HD1	LEU	22	0.663	-8.168	10.384	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.418	-9.408	9.120	1.00	0.00
ATOM	381	2HD2	LEU	22	0.035	-11.014	9.693	1.00	0.00
ATOM	382	3HD2	LEU	22	0.258	-10.588	7.996	1.00	0.00
ATOM	383	N	ARG	23	4.326	-8.162	5.918	1.00	0.00
ATOM	384	CA	ARG	23	5.054	-8.331	4.665	1.00	0.00
ATOM	392	C	ARG	23	6.521	-7.923	4.833	1.00	0.00
ATOM	393	O	ARG	23	7.370	-8.260	4.006	1.00	0.00
ATOM	385	CB	ARG	23	4.368	-7.505	3.561	1.00	0.00
ATOM	386	CG	ARG	23	4.816	-7.836	2.150	1.00	0.00
ATOM	387	CD	ARG	23	4.143	-6.919	1.137	1.00	0.00
ATOM	388	NE	ARG	23	4.913	-5.697	0.896	1.00	0.00
ATOM	389	CZ	ARG	23	5.686	-5.488	-0.174	1.00	0.00
ATOM	390	NH1	ARG	23	5.818	-6.429	-1.100	1.00	0.00
ATOM	391	NH2	ARG	23	6.322	-4.330	-0.314	1.00	0.00
ATOM	394	H	ARG	23	3.613	-7.484	5.962	1.00	0.00
ATOM	395	HA	ARG	23	5.014	-9.376	4.397	1.00	0.00
ATOM	396	1HB	ARG	23	4.555	-6.458	3.734	1.00	0.00
ATOM	397	2HB	ARG	23	3.304	-7.679	3.617	1.00	0.00
ATOM	398	1HG	ARG	23	4.553	-8.860	1.928	1.00	0.00
ATOM	399	2HG	ARG	23	5.886	-7.710	2.082	1.00	0.00
ATOM	400	1HD	ARG	23	3.158	-6.641	1.513	1.00	0.00
ATOM	401	2HD	ARG	23	4.033	-7.453	0.205	1.00	0.00
ATOM	402	HE	ARG	23	4.837	-4.980	1.568	1.00	0.00
ATOM	403	1HH1	ARG	23	5.342	-7.302	-1.002	1.00	0.00
ATOM	404	2HH1	ARG	23	6.389	-6.266	-1.911	1.00	0.00
ATOM	405	1HH2	ARG	23	6.223	-3.613	0.381	1.00	0.00
ATOM	406	2HH2	ARG	23	6.915	-4.167	-1.117	1.00	0.00
ATOM	407	N	GLN	24	6.805	-7.210	5.917	1.00	0.00
ATOM	408	CA	GLN	24	8.160	-6.761	6.217	1.00	0.00
ATOM	414	C	GLN	24	8.956	-7.862	6.916	1.00	0.00
ATOM	415	O	GLN	24	10.161	-8.002	6.699	1.00	0.00
ATOM	409	CB	GLN	24	8.124	-5.517	7.110	1.00	0.00
ATOM	410	CG	GLN	24	8.781	-4.293	6.491	1.00	0.00
ATOM	411	CD	GLN	24	9.004	-3.171	7.493	1.00	0.00
ATOM	412	OE1	GLN	24	8.578	-3.251	8.649	1.00	0.00
ATOM	413	NE2	GLN	24	9.672	-2.113	7.058	1.00	0.00
ATOM	416	H	GLN	24	6.080	-6.981	6.538	1.00	0.00
ATOM	417	HA	GLN	24	8.646	-6.514	5.285	1.00	0.00
ATOM	418	1HB	GLN	24	8.632	-5.741	8.039	1.00	0.00
ATOM	419	2HB	GLN	24	7.093	-5.275	7.326	1.00	0.00
ATOM	420	1HG	GLN	24	8.148	-3.925	5.697	1.00	0.00
ATOM	421	2HG	GLN	24	9.738	-4.582	6.081	1.00	0.00
ATOM	422	1HE2	GLN	24	9.983	-2.110	6.124	1.00	0.00
ATOM	423	2HE2	GLN	24	9.832	-1.377	7.682	1.00	0.00
ATOM	424	N	LYS	25	8.282	-8.636	7.769	1.00	0.00
ATOM	425	CA	LYS	25	8.946	-9.711	8.506	1.00	0.00
ATOM	431	C	LYS	25	7.971	-10.827	8.886	1.00	0.00
ATOM	432	O	LYS	25	7.526	-10.918	10.034	1.00	0.00
ATOM	426	CB	LYS	25	9.629	-9.158	9.767	1.00	0.00
ATOM	427	CG	LYS	25	8.890	-7.998	10.420	1.00	0.00
ATOM	428	CD	LYS	25	9.396	-7.739	11.828	1.00	0.00
ATOM	429	CE	LYS	25	8.872	-6.420	12.379	1.00	0.00
ATOM	430	NZ	LYS	25	9.807	-5.817	13.369	1.00	0.00
ATOM	433	H	LYS	25	7.321	-8.476	7.911	1.00	0.00
ATOM	434	HA	LYS	25	9.704	-10.126	7.860	1.00	0.00
ATOM	435	1HB	LYS	25	10.621	-8.820	9.503	1.00	0.00
ATOM	436	2HB	LYS	25	9.712	-9.954	10.493	1.00	0.00
ATOM	437	1HG	LYS	25	7.836	-8.232	10.463	1.00	0.00
ATOM	438	2HG	LYS	25	9.038	-7.109	9.825	1.00	0.00



ATOM	439	1HD	LYS	25	10.478	-7.708	11.811	1.00	0.00
ATOM	440	2HD	LYS	25	9.068	-8.542	12.469	1.00	0.00
ATOM	441	1HE	LYS	25	7.921	-6.599	12.857	1.00	0.00
ATOM	442	2HE	LYS	25	8.737	-5.730	11.558	1.00	0.00
ATOM	443	1HZ	LYS	25	10.019	-6.496	14.123	1.00	0.00
ATOM	444	2HZ	LYS	25	9.379	-4.960	13.798	1.00	0.00
ATOM	445	3HZ	LYS	25	10.701	-5.541	12.902	1.00	0.00
ATOM	446	N	GLY	26	7.650	-11.682	7.924	1.00	0.00
ATOM	447	CA	GLY	26	6.742	-12.784	8.183	1.00	0.00
ATOM	448	C	GLY	26	5.966	-13.194	6.952	1.00	0.00
ATOM	449	O	GLY	26	6.175	-14.271	6.393	1.00	0.00
ATOM	450	H	GLY	26	8.038	-11.567	7.032	1.00	0.00
ATOM	451	1HA	GLY	26	6.045	-12.486	8.951	1.00	0.00
ATOM	452	2HA	GLY	26	7.308	-13.631	8.537	1.00	0.00
ATOM	453	N	TYR	27	5.081	-12.320	6.520	1.00	0.00
ATOM	454	CA	TYR	27	4.261	-12.556	5.342	1.00	0.00
ATOM	463	C	TYR	27	4.950	-11.989	4.104	1.00	0.00
ATOM	464	O	TYR	27	4.393	-11.155	3.391	1.00	0.00
ATOM	455	CB	TYR	27	2.884	-11.909	5.537	1.00	0.00
ATOM	456	CG	TYR	27	1.775	-12.516	4.702	1.00	0.00
ATOM	457	CD1	TYR	27	1.740	-13.879	4.431	1.00	0.00
ATOM	458	CD2	TYR	27	0.758	-11.719	4.192	1.00	0.00
ATOM	459	CE1	TYR	27	0.722	-14.427	3.673	1.00	0.00
ATOM	460	CE2	TYR	27	-0.262	-12.260	3.435	1.00	0.00
ATOM	461	CZ	TYR	27	-0.276	-13.614	3.177	1.00	0.00
ATOM	462	OH	TYR	27	-1.291	-14.155	2.420	1.00	0.00
ATOM	465	H	TYR	27	4.984	-11.470	7.005	1.00	0.00
ATOM	466	HA	TYR	27	4.140	-13.622	5.223	1.00	0.00
ATOM	467	1HB	TYR	27	2.952	-10.860	5.285	1.00	0.00
ATOM	468	2HB	TYR	27	2.599	-12.001	6.574	1.00	0.00
ATOM	469	HD1	TYR	27	0.772	-10.658	4.395	1.00	0.00
ATOM	470	HD2	TYR	27	2.522	-14.512	4.822	1.00	0.00
ATOM	471	HE1	TYR	27	-1.043	-11.623	3.048	1.00	0.00
ATOM	472	HE2	TYR	27	0.713	-15.488	3.470	1.00	0.00
ATOM	473	HH	TYR	27	-2.005	-14.443	2.999	1.00	0.00
ATOM	474	N	VAL	28	6.175	-12.441	3.859	1.00	0.00
ATOM	475	CA	VAL	28	6.947	-11.968	2.717	1.00	0.00
ATOM	479	C	VAL	28	6.485	-12.648	1.428	1.00	0.00
ATOM	480	O	VAL	28	6.501	-12.046	0.352	1.00	0.00
ATOM	476	CB	VAL	28	8.466	-12.191	2.933	1.00	0.00
ATOM	477	CG1	VAL	28	8.786	-13.668	3.125	1.00	0.00
ATOM	478	CG2	VAL	28	9.270	-11.609	1.779	1.00	0.00
ATOM	481	H	VAL	28	6.571	-13.102	4.469	1.00	0.00
ATOM	482	HA	VAL	28	6.774	-10.907	2.625	1.00	0.00
ATOM	483	HB	VAL	28	8.752	-11.671	3.834	1.00	0.00
ATOM	484	1HG1	VAL	28	8.859	-13.887	4.180	1.00	0.00
ATOM	485	2HG1	VAL	28	9.726	-13.897	2.644	1.00	0.00
ATOM	486	3HG1	VAL	28	8.002	-14.266	2.686	1.00	0.00
ATOM	487	1HG2	VAL	28	8.636	-10.965	1.187	1.00	0.00
ATOM	488	2HG2	VAL	28	9.645	-12.411	1.161	1.00	0.00
ATOM	489	3HG2	VAL	28	10.099	-11.037	2.169	1.00	0.00
ATOM	490	N	CYS	29	6.047	-13.893	1.549	1.00	0.00
ATOM	491	CA	CYS	29	5.556	-14.636	0.398	1.00	0.00
ATOM	494	C	CYS	29	4.222	-14.057	-0.051	1.00	0.00
ATOM	495	O	CYS	29	3.913	-14.017	-1.241	1.00	0.00
ATOM	492	CB	CYS	29	5.402	-16.120	0.737	1.00	0.00
ATOM	493	SG	CYS	29	6.960	-17.035	0.742	1.00	0.00
ATOM	496	H	CYS	29	6.039	-14.313	2.431	1.00	0.00
ATOM	497	HA	CYS	29	6.274	-14.526	-0.402	1.00	0.00
ATOM	498	1HB	CYS	29	4.750	-16.581	0.009	1.00	0.00
ATOM	499	2HB	CYS	29	4.963	-16.213	1.718	1.00	0.00
ATOM	500	HG	CYS	29	7.388	-17.124	-0.513	1.00	0.00
ATOM	501	N	GLY	30	3.451	-13.576	0.915	1.00	0.00
ATOM	502	CA	GLY	30	2.172	-12.974	0.617	1.00	0.00
ATOM	503	C	GLY	30	2.301	-11.485	0.400	1.00	0.00
ATOM	504	O	GLY	30	1.648	-10.684	1.072	1.00	0.00
ATOM	505	H	GLY	30	3.764	-13.613	1.840	1.00	0.00
ATOM	506	1HA	GLY	30	1.501	-13.150	1.438	1.00	0.00
ATOM	507	2HA	GLY	30	1.767	-13.429	-0.275	1.00	0.00
ATOM	508	N	ALA	31	3.153	-11.119	-0.538	1.00	0.00
ATOM	509	CA	ALA	31	3.389	-9.723	-0.862	1.00	0.00
ATOM	511	C	ALA	31	2.154	-9.112	-1.510	1.00	0.00
ATOM	512	O	ALA	31	1.779	-9.485	-2.619	1.00	0.00



ATOM	510	CB	ALA	31	4.594	-9.594	-1.781	1.00	0.00
ATOM	513	H	ALA	31	3.640	-11.815	-1.026	1.00	0.00
ATOM	514	HA	ALA	31	3.604	-9.196	0.057	1.00	0.00
ATOM	515	1HB	ALA	31	5.257	-10.433	-1.627	1.00	0.00
ATOM	516	2HB	ALA	31	5.118	-8.676	-1.560	1.00	0.00
ATOM	517	3HB	ALA	31	4.262	-9.580	-2.808	1.00	0.00
ATOM	518	N	GLY	32	1.512	-8.188	-0.810	1.00	0.00
ATOM	519	CA	GLY	32	0.314	-7.574	-1.351	1.00	0.00
ATOM	520	C	GLY	32	-0.362	-6.600	-0.398	1.00	0.00
ATOM	521	O	GLY	32	-0.643	-5.469	-0.781	1.00	0.00
ATOM	522	H	GLY	32	1.841	-7.932	0.080	1.00	0.00
ATOM	523	1HA	GLY	32	-0.389	-8.355	-1.603	1.00	0.00
ATOM	524	2HA	GLY	32	0.578	-7.044	-2.254	1.00	0.00
ATOM	525	N	PRO	33	-0.649	-6.998	0.857	1.00	0.00
ATOM	526	CA	PRO	33	-1.312	-6.114	1.823	1.00	0.00
ATOM	530	C	PRO	33	-0.458	-4.901	2.148	1.00	0.00
ATOM	531	O	PRO	33	-0.938	-3.773	2.203	1.00	0.00
ATOM	527	CB	PRO	33	-1.487	-7.001	3.064	1.00	0.00
ATOM	528	CG	PRO	33	-1.370	-8.394	2.556	1.00	0.00
ATOM	529	CD	PRO	33	-0.372	-8.318	1.442	1.00	0.00
ATOM	532	HA	PRO	33	-2.278	-5.790	1.465	1.00	0.00
ATOM	533	1HB	PRO	33	-2.453	-6.821	3.504	1.00	0.00
ATOM	534	2HB	PRO	33	-0.713	-6.777	3.781	1.00	0.00
ATOM	535	1HG	PRO	33	-2.325	-8.736	2.186	1.00	0.00
ATOM	536	2HG	PRO	33	-1.013	-9.044	3.343	1.00	0.00
ATOM	537	1HD	PRO	33	-0.531	-9.100	0.723	1.00	0.00
ATOM	538	2HD	PRO	33	0.634	-8.362	1.835	1.00	0.00
ATOM	539	N	GLY	34	0.822	-5.155	2.351	1.00	0.00
ATOM	540	CA	GLY	34	1.753	-4.098	2.663	1.00	0.00
ATOM	541	C	GLY	34	2.570	-3.673	1.470	1.00	0.00
ATOM	542	O	GLY	34	3.729	-3.290	1.616	1.00	0.00
ATOM	543	H	GLY	34	1.134	-6.077	2.288	1.00	0.00
ATOM	544	1HA	GLY	34	2.423	-4.447	3.435	1.00	0.00
ATOM	545	2HA	GLY	34	1.210	-3.246	3.038	1.00	0.00
ATOM	546	N	GLU	35	1.985	-3.748	0.285	1.00	0.00
ATOM	547	CA	GLU	35	2.700	-3.359	-0.918	1.00	0.00
ATOM	553	C	GLU	35	2.526	-1.863	-1.176	1.00	0.00
ATOM	554	O	GLU	35	3.258	-1.263	-1.966	1.00	0.00
ATOM	548	CB	GLU	35	2.240	-4.189	-2.121	1.00	0.00
ATOM	549	CG	GLU	35	0.976	-3.680	-2.794	1.00	0.00
ATOM	550	CD	GLU	35	0.525	-4.582	-3.922	1.00	0.00
ATOM	551	OE1	GLU	35	1.344	-5.397	-4.399	1.00	0.00
ATOM	552	OE2	GLU	35	-0.653	-4.484	-4.339	1.00	0.00
ATOM	555	H	GLU	35	1.059	-4.069	0.219	1.00	0.00
ATOM	556	HA	GLU	35	3.747	-3.560	-0.739	1.00	0.00
ATOM	557	1HB	GLU	35	2.061	-5.201	-1.792	1.00	0.00
ATOM	558	2HB	GLU	35	3.030	-4.197	-2.857	1.00	0.00
ATOM	559	1HG	GLU	35	1.165	-2.694	-3.192	1.00	0.00
ATOM	560	2HG	GLU	35	0.186	-3.625	-2.059	1.00	0.00
ATOM	561	N	GLY	36	1.564	-1.267	-0.484	1.00	0.00
ATOM	562	CA	GLY	36	1.310	0.151	-0.625	1.00	0.00
ATOM	563	C	GLY	36	2.048	0.961	0.421	1.00	0.00
ATOM	564	O	GLY	36	2.185	0.525	1.565	1.00	0.00
ATOM	565	H	GLY	36	1.028	-1.794	0.143	1.00	0.00
ATOM	566	1HA	GLY	36	0.250	0.330	-0.523	1.00	0.00
ATOM	567	2HA	GLY	36	1.629	0.469	-1.608	1.00	0.00
ATOM	568	N	PRO	37	2.564	2.139	0.054	1.00	0.00
ATOM	569	CA	PRO	37	3.308	2.993	0.960	1.00	0.00
ATOM	573	C	PRO	37	2.441	4.059	1.634	1.00	0.00
ATOM	574	O	PRO	37	1.224	3.905	1.789	1.00	0.00
ATOM	570	CB	PRO	37	4.315	3.643	0.016	1.00	0.00
ATOM	571	CG	PRO	37	3.594	3.767	-1.290	1.00	0.00
ATOM	572	CD	PRO	37	2.490	2.729	-1.291	1.00	0.00
ATOM	575	HA	PRO	37	3.831	2.421	1.712	1.00	0.00
ATOM	576	1HB	PRO	37	5.186	3.012	-0.075	1.00	0.00
ATOM	577	2HB	PRO	37	4.603	4.609	0.403	1.00	0.00
ATOM	578	1HG	PRO	37	4.281	3.582	-2.103	1.00	0.00
ATOM	579	2HG	PRO	37	3.170	4.757	-1.379	1.00	0.00
ATOM	580	1HD	PRO	37	2.676	1.983	-2.049	1.00	0.00
ATOM	581	2HD	PRO	37	1.530	3.198	-1.452	1.00	0.00
ATOM	582	N	ALA	38	3.084	5.145	2.028	1.00	0.00
ATOM	583	CA	ALA	38	2.415	6.256	2.683	1.00	0.00
ATOM	585	C	ALA	38	1.823	7.212	1.650	1.00	0.00



ATOM	586	O	ALA	38	2.412	8.244	1.339	1.00	0.00
ATOM	584	CB	ALA	38	3.410	6.977	3.575	1.00	0.00
ATOM	587	H	ALA	38	4.049	5.206	1.868	1.00	0.00
ATOM	588	HA	ALA	38	1.621	5.864	3.304	1.00	0.00
ATOM	589	1HB	ALA	38	4.406	6.863	3.171	1.00	0.00
ATOM	590	2HB	ALA	38	3.375	6.554	4.569	1.00	0.00
ATOM	591	3HB	ALA	38	3.159	8.027	3.621	1.00	0.00
ATOM	592	N	ALA	39	0.662	6.859	1.107	1.00	0.00
ATOM	593	CA	ALA	39	0.022	7.691	0.092	1.00	0.00
ATOM	595	C	ALA	39	-1.400	8.073	0.487	1.00	0.00
ATOM	596	O	ALA	39	-2.188	8.518	-0.348	1.00	0.00
ATOM	594	CB	ALA	39	0.022	6.969	-1.246	1.00	0.00
ATOM	597	H	ALA	39	0.238	6.016	1.378	1.00	0.00
ATOM	598	HA	ALA	39	0.608	8.592	-0.015	1.00	0.00
ATOM	599	1HB	ALA	39	0.532	7.573	-1.982	1.00	0.00
ATOM	600	2HB	ALA	39	-0.998	6.800	-1.565	1.00	0.00
ATOM	601	3HB	ALA	39	0.530	6.021	-1.145	1.00	0.00
ATOM	602	N	ASP	40	-1.721	7.909	1.763	1.00	0.00
ATOM	603	CA	ASP	40	-3.038	8.240	2.268	1.00	0.00
ATOM	608	C	ASP	40	-2.915	9.182	3.456	1.00	0.00
ATOM	609	O	ASP	40	-1.872	9.223	4.116	1.00	0.00
ATOM	604	CB	ASP	40	-3.788	6.972	2.686	1.00	0.00
ATOM	605	CG	ASP	40	-4.430	6.252	1.515	1.00	0.00
ATOM	606	OD1	ASP	40	-5.268	6.864	0.821	1.00	0.00
ATOM	607	OD2	ASP	40	-4.092	5.070	1.292	1.00	0.00
ATOM	610	H	ASP	40	-1.057	7.566	2.381	1.00	0.00
ATOM	611	HA	ASP	40	-3.586	8.735	1.479	1.00	0.00
ATOM	612	1HB	ASP	40	-4.564	7.245	3.384	1.00	0.00
ATOM	613	2HB	ASP	40	-3.099	6.295	3.168	1.00	0.00
ATOM	614	N	PRO	41	-3.985	9.933	3.749	1.00	0.00
ATOM	615	CA	PRO	41	-4.043	10.895	4.864	1.00	0.00
ATOM	619	C	PRO	41	-4.098	10.221	6.237	1.00	0.00
ATOM	620	O	PRO	41	-4.755	10.703	7.155	1.00	0.00
ATOM	616	CB	PRO	41	-5.341	11.679	4.618	1.00	0.00
ATOM	617	CG	PRO	41	-5.868	11.222	3.295	1.00	0.00
ATOM	618	CD	PRO	41	-5.242	9.889	3.007	1.00	0.00
ATOM	621	HA	PRO	41	-3.205	11.574	4.839	1.00	0.00
ATOM	622	1HB	PRO	41	-5.124	12.737	4.608	1.00	0.00
ATOM	623	2HB	PRO	41	-6.042	11.464	5.410	1.00	0.00
ATOM	624	1HG	PRO	41	-5.599	11.934	2.529	1.00	0.00
ATOM	625	2HG	PRO	41	-6.941	11.120	3.348	1.00	0.00
ATOM	626	1HD	PRO	41	-5.056	9.775	1.950	1.00	0.00
ATOM	627	2HD	PRO	41	-5.861	9.085	3.366	1.00	0.00
ATOM	628	N	LEU	42	-3.384	9.115	6.366	1.00	0.00
ATOM	629	CA	LEU	42	-3.314	8.361	7.614	1.00	0.00
ATOM	634	C	LEU	42	-2.193	7.336	7.523	1.00	0.00
ATOM	635	O	LEU	42	-1.600	6.949	8.526	1.00	0.00
ATOM	630	CB	LEU	42	-4.640	7.649	7.920	1.00	0.00
ATOM	631	CG	LEU	42	-5.563	7.414	6.718	1.00	0.00
ATOM	632	CD1	LEU	42	-5.477	5.973	6.241	1.00	0.00
ATOM	633	CD2	LEU	42	-6.998	7.772	7.072	1.00	0.00
ATOM	636	H	LEU	42	-2.872	8.806	5.596	1.00	0.00
ATOM	637	HA	LEU	42	-3.087	9.060	8.410	1.00	0.00
ATOM	638	1HB	LEU	42	-5.179	8.238	8.647	1.00	0.00
ATOM	639	2HB	LEU	42	-4.409	6.690	8.363	1.00	0.00
ATOM	640	HG	LEU	42	-5.250	8.053	5.904	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.555	5.306	7.087	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.531	5.815	5.743	1.00	0.00
ATOM	643	3HD1	LEU	42	-6.284	5.775	5.551	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.594	7.803	6.173	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.020	8.740	7.552	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.400	7.028	7.744	1.00	0.00
ATOM	647	N	HIS	43	-1.911	6.906	6.298	1.00	0.00
ATOM	648	CA	HIS	43	-0.861	5.926	6.039	1.00	0.00
ATOM	655	C	HIS	43	0.495	6.440	6.515	1.00	0.00
ATOM	656	O	HIS	43	1.175	5.786	7.304	1.00	0.00
ATOM	649	CB	HIS	43	-0.774	5.637	4.541	1.00	0.00
ATOM	650	CG	HIS	43	-1.636	4.503	4.053	1.00	0.00
ATOM	651	ND1	HIS	43	-1.306	3.728	2.958	1.00	0.00
ATOM	652	CD2	HIS	43	-2.847	4.056	4.473	1.00	0.00
ATOM	653	CE1	HIS	43	-2.279	2.868	2.721	1.00	0.00
ATOM	654	NE2	HIS	43	-3.222	3.045	3.626	1.00	0.00
ATOM	657	H	HIS	43	-2.424	7.260	5.546	1.00	0.00



ATOM	658	HA	HIS	43	-1.102	5.020	6.571	1.00	0.00
ATOM	659	1HB	HIS	43	0.250	5.412	4.302	1.00	0.00
ATOM	660	2HB	HIS	43	-1.070	6.524	4.001	1.00	0.00
ATOM	661	HD1	HIS	43	-0.466	3.776	2.447	1.00	0.00
ATOM	662	HD2	HIS	43	-3.414	4.431	5.314	1.00	0.00
ATOM	663	HE1	HIS	43	-2.296	2.139	1.925	1.00	0.00
ATOM	664	HE2	HIS	43	-4.006	2.468	3.741	1.00	0.00
ATOM	665	N	GLN	44	0.874	7.620	6.021	1.00	0.00
ATOM	666	CA	GLN	44	2.151	8.241	6.383	1.00	0.00
ATOM	672	C	GLN	44	2.199	8.558	7.868	1.00	0.00
ATOM	673	O	GLN	44	3.272	8.688	8.456	1.00	0.00
ATOM	667	CB	GLN	44	2.382	9.533	5.586	1.00	0.00
ATOM	668	CG	GLN	44	1.400	9.751	4.445	1.00	0.00
ATOM	669	CD	GLN	44	1.210	11.217	4.112	1.00	0.00
ATOM	670	OE1	GLN	44	0.672	11.980	4.911	1.00	0.00
ATOM	671	NE2	GLN	44	1.654	11.619	2.930	1.00	0.00
ATOM	674	H	GLN	44	0.283	8.086	5.394	1.00	0.00
ATOM	675	HA	GLN	44	2.938	7.539	6.152	1.00	0.00
ATOM	676	1HB	GLN	44	3.380	9.509	5.174	1.00	0.00
ATOM	677	2HB	GLN	44	2.305	10.373	6.261	1.00	0.00
ATOM	678	1HG	GLN	44	0.444	9.333	4.725	1.00	0.00
ATOM	679	2HG	GLN	44	1.770	9.244	3.566	1.00	0.00
ATOM	680	1HE2	GLN	44	2.074	10.958	2.339	1.00	0.00
ATOM	681	2HE2	GLN	44	1.545	12.565	2.692	1.00	0.00
ATOM	682	N	ALA	45	1.028	8.676	8.465	1.00	0.00
ATOM	683	CA	ALA	45	0.925	8.982	9.881	1.00	0.00
ATOM	685	C	ALA	45	1.224	7.754	10.727	1.00	0.00
ATOM	686	O	ALA	45	2.011	7.813	11.674	1.00	0.00
ATOM	684	CB	ALA	45	-0.457	9.525	10.204	1.00	0.00
ATOM	687	H	ALA	45	0.211	8.546	7.936	1.00	0.00
ATOM	688	HA	ALA	45	1.650	9.750	10.109	1.00	0.00
ATOM	689	1HB	ALA	45	-0.393	10.586	10.389	1.00	0.00
ATOM	690	2HB	ALA	45	-0.842	9.027	11.082	1.00	0.00
ATOM	691	3HB	ALA	45	-1.118	9.344	9.369	1.00	0.00
ATOM	692	N	MET	46	0.591	6.639	10.385	1.00	0.00
ATOM	693	CA	MET	46	0.789	5.402	11.124	1.00	0.00
ATOM	698	C	MET	46	2.190	4.847	10.911	1.00	0.00
ATOM	699	O	MET	46	2.764	4.229	11.809	1.00	0.00
ATOM	694	CB	MET	46	-0.244	4.363	10.702	1.00	0.00
ATOM	695	CG	MET	46	-0.740	3.513	11.855	1.00	0.00
ATOM	696	SD	MET	46	-2.401	2.892	11.584	1.00	0.00
ATOM	697	CE	MET	46	-3.294	3.859	12.788	1.00	0.00
ATOM	700	H	MET	46	-0.034	6.650	9.619	1.00	0.00
ATOM	701	HA	MET	46	0.657	5.620	12.174	1.00	0.00
ATOM	702	1HB	MET	46	0.197	3.710	9.964	1.00	0.00
ATOM	703	2HB	MET	46	-1.092	4.870	10.264	1.00	0.00
ATOM	704	1HG	MET	46	-0.737	4.113	12.753	1.00	0.00
ATOM	705	2HG	MET	46	-0.077	2.677	11.982	1.00	0.00
ATOM	706	1HE	MET	46	-4.271	4.106	12.396	1.00	0.00
ATOM	707	2HE	MET	46	-2.750	4.768	12.998	1.00	0.00
ATOM	708	3HE	MET	46	-3.407	3.288	13.698	1.00	0.00
ATOM	709	N	ARG	47	2.729	5.067	9.719	1.00	0.00
ATOM	710	CA	ARG	47	4.060	4.584	9.371	1.00	0.00
ATOM	718	C	ARG	47	5.134	5.163	10.292	1.00	0.00
ATOM	719	O	ARG	47	6.026	4.443	10.741	1.00	0.00
ATOM	711	CB	ARG	47	4.379	4.928	7.913	1.00	0.00
ATOM	712	CG	ARG	47	5.024	3.787	7.142	1.00	0.00
ATOM	713	CD	ARG	47	4.244	2.492	7.300	1.00	0.00
ATOM	714	NE	ARG	47	3.822	1.943	6.013	1.00	0.00
ATOM	715	CZ	ARG	47	2.552	1.674	5.695	1.00	0.00
ATOM	716	NH1	ARG	47	1.581	1.912	6.569	1.00	0.00
ATOM	717	NH2	ARG	47	2.254	1.165	4.507	1.00	0.00
ATOM	720	H	ARG	47	2.212	5.564	9.047	1.00	0.00
ATOM	721	HA	ARG	47	4.057	3.511	9.479	1.00	0.00
ATOM	722	1HB	ARG	47	5.051	5.774	7.894	1.00	0.00
ATOM	723	2HB	ARG	47	3.461	5.199	7.412	1.00	0.00
ATOM	724	1HG	ARG	47	6.029	3.640	7.512	1.00	0.00
ATOM	725	2HG	ARG	47	5.060	4.048	6.094	1.00	0.00
ATOM	726	1HD	ARG	47	3.368	2.685	7.903	1.00	0.00
ATOM	727	2HD	ARG	47	4.870	1.768	7.799	1.00	0.00
ATOM	728	HE	ARG	47	4.523	1.758	5.354	1.00	0.00
ATOM	729	1HH1	ARG	47	1.791	2.290	7.467	1.00	0.00
ATOM	730	2HH1	ARG	47	0.612	1.711	6.321	1.00	0.00



ATOM	731	1HH2	ARG	47	2.972	0.974	3.837	1.00	0.00
ATOM	732	2HH2	ARG	47	1.284	0.962	4.267	1.00	0.00
ATOM	733	N	ALA	48	5.037	6.457	10.578	1.00	0.00
ATOM	734	CA	ALA	48	6.005	7.115	11.445	1.00	0.00
ATOM	736	C	ALA	48	5.712	6.791	12.896	1.00	0.00
ATOM	737	O	ALA	48	6.616	6.701	13.724	1.00	0.00
ATOM	735	CB	ALA	48	5.991	8.619	11.219	1.00	0.00
ATOM	738	H	ALA	48	4.296	6.977	10.208	1.00	0.00
ATOM	739	HA	ALA	48	6.993	6.739	11.196	1.00	0.00
ATOM	740	1HB	ALA	48	4.982	8.941	11.009	1.00	0.00
ATOM	741	2HB	ALA	48	6.628	8.863	10.383	1.00	0.00
ATOM	742	3HB	ALA	48	6.352	9.121	12.105	1.00	0.00
ATOM	743	N	ALA	49	4.437	6.591	13.190	1.00	0.00
ATOM	744	CA	ALA	49	4.019	6.245	14.531	1.00	0.00
ATOM	746	C	ALA	49	4.629	4.914	14.917	1.00	0.00
ATOM	747	O	ALA	49	5.415	4.831	15.863	1.00	0.00
ATOM	745	CB	ALA	49	2.505	6.175	14.613	1.00	0.00
ATOM	748	H	ALA	49	3.765	6.661	12.477	1.00	0.00
ATOM	749	HA	ALA	49	4.369	7.010	15.211	1.00	0.00
ATOM	750	1HB	ALA	49	2.215	5.292	15.163	1.00	0.00
ATOM	751	2HB	ALA	49	2.092	6.130	13.615	1.00	0.00
ATOM	752	3HB	ALA	49	2.131	7.052	15.118	1.00	0.00
ATOM	753	N	GLY	50	4.257	3.883	14.164	1.00	0.00
ATOM	754	CA	GLY	50	4.758	2.544	14.400	1.00	0.00
ATOM	755	C	GLY	50	6.263	2.497	14.542	1.00	0.00
ATOM	756	O	GLY	50	6.762	1.899	15.480	1.00	0.00
ATOM	757	H	GLY	50	3.621	4.036	13.432	1.00	0.00
ATOM	758	1HA	GLY	50	4.467	1.914	13.573	1.00	0.00
ATOM	759	2HA	GLY	50	4.312	2.160	15.305	1.00	0.00
ATOM	760	N	ASP	51	6.980	3.133	13.618	1.00	0.00
ATOM	761	CA	ASP	51	8.445	3.155	13.655	1.00	0.00
ATOM	766	C	ASP	51	8.965	3.728	14.975	1.00	0.00
ATOM	767	O	ASP	51	9.875	3.170	15.596	1.00	0.00
ATOM	762	CB	ASP	51	8.995	3.971	12.483	1.00	0.00
ATOM	763	CG	ASP	51	10.372	3.497	12.059	1.00	0.00
ATOM	764	OD1	ASP	51	10.471	2.396	11.475	1.00	0.00
ATOM	765	OD2	ASP	51	11.359	4.224	12.308	1.00	0.00
ATOM	768	H	ASP	51	6.518	3.599	12.890	1.00	0.00
ATOM	769	HA	ASP	51	8.791	2.137	13.563	1.00	0.00
ATOM	770	1HB	ASP	51	9.060	5.011	12.770	1.00	0.00
ATOM	771	2HB	ASP	51	8.324	3.876	11.641	1.00	0.00
ATOM	772	N	GLU	52	8.376	4.837	15.405	1.00	0.00
ATOM	773	CA	GLU	52	8.774	5.482	16.652	1.00	0.00
ATOM	779	C	GLU	52	8.563	4.546	17.843	1.00	0.00
ATOM	780	O	GLU	52	9.433	4.423	18.707	1.00	0.00
ATOM	774	CB	GLU	52	7.986	6.787	16.838	1.00	0.00
ATOM	775	CG	GLU	52	7.635	7.111	18.283	1.00	0.00
ATOM	776	CD	GLU	52	7.740	8.587	18.586	1.00	0.00
ATOM	777	OE1	GLU	52	8.844	9.042	18.942	1.00	0.00
ATOM	778	OE2	GLU	52	6.716	9.295	18.468	1.00	0.00
ATOM	781	H	GLU	52	7.651	5.233	14.872	1.00	0.00
ATOM	782	HA	GLU	52	9.827	5.714	16.581	1.00	0.00
ATOM	783	1HB	GLU	52	7.066	6.718	16.275	1.00	0.00
ATOM	784	2HB	GLU	52	8.574	7.603	16.444	1.00	0.00
ATOM	785	1HG	GLU	52	8.312	6.575	18.934	1.00	0.00
ATOM	786	2HG	GLU	52	6.622	6.790	18.475	1.00	0.00
ATOM	787	N	PHE	53	7.415	3.880	17.889	1.00	0.00
ATOM	788	CA	PHE	53	7.127	2.966	18.987	1.00	0.00
ATOM	796	C	PHE	53	7.876	1.655	18.818	1.00	0.00
ATOM	797	O	PHE	53	8.216	1.009	19.798	1.00	0.00
ATOM	789	CB	PHE	53	5.630	2.713	19.119	1.00	0.00
ATOM	790	CG	PHE	53	5.022	3.378	20.325	1.00	0.00
ATOM	791	CD1	PHE	53	5.446	4.638	20.726	1.00	0.00
ATOM	792	CD2	PHE	53	4.032	2.746	21.058	1.00	0.00
ATOM	793	CE1	PHE	53	4.893	5.251	21.833	1.00	0.00
ATOM	794	CE2	PHE	53	3.477	3.355	22.168	1.00	0.00
ATOM	795	CZ	PHE	53	3.907	4.609	22.556	1.00	0.00
ATOM	798	H	PHE	53	6.752	4.006	17.172	1.00	0.00
ATOM	799	HA	PHE	53	7.477	3.437	19.895	1.00	0.00
ATOM	800	1HB	PHE	53	5.455	1.651	19.199	1.00	0.00
ATOM	801	2HB	PHE	53	5.128	3.092	18.240	1.00	0.00
ATOM	802	HD1	PHE	53	3.694	1.766	20.757	1.00	0.00
ATOM	803	HD2	PHE	53	6.217	5.142	20.162	1.00	0.00



ATOM	804	HE1	PHE	53	2.704	2.851	22.731	1.00	0.00
ATOM	805	HE2	PHE	53	5.231	6.231	22.134	1.00	0.00
ATOM	806	HZ	PHE	53	3.474	5.085	23.423	1.00	0.00
ATOM	807	N	GLU	54	8.161	1.279	17.582	1.00	0.00
ATOM	808	CA	GLU	54	8.906	0.059	17.312	1.00	0.00
ATOM	814	C	GLU	54	10.324	0.230	17.857	1.00	0.00
ATOM	815	O	GLU	54	11.020	-0.737	18.176	1.00	0.00
ATOM	809	CB	GLU	54	8.908	-0.242	15.801	1.00	0.00
ATOM	810	CG	GLU	54	9.680	-1.495	15.407	1.00	0.00
ATOM	811	CD	GLU	54	8.975	-2.316	14.337	1.00	0.00
ATOM	812	OE1	GLU	54	8.359	-1.723	13.427	1.00	0.00
ATOM	813	OE2	GLU	54	9.051	-3.564	14.391	1.00	0.00
ATOM	816	H	GLU	54	7.879	1.846	16.827	1.00	0.00
ATOM	817	HA	GLU	54	8.422	-0.751	17.840	1.00	0.00
ATOM	818	1HB	GLU	54	9.335	0.604	15.274	1.00	0.00
ATOM	819	2HB	GLU	54	7.886	-0.368	15.477	1.00	0.00
ATOM	820	1HG	GLU	54	9.810	-2.114	16.282	1.00	0.00
ATOM	821	2HG	GLU	54	10.650	-1.202	15.031	1.00	0.00
ATOM	822	N	THR	55	10.721	1.491	17.987	1.00	0.00
ATOM	823	CA	THR	55	12.025	1.843	18.516	1.00	0.00
ATOM	827	C	THR	55	11.951	2.131	20.027	1.00	0.00
ATOM	828	O	THR	55	12.856	1.768	20.781	1.00	0.00
ATOM	824	CB	THR	55	12.590	3.073	17.776	1.00	0.00
ATOM	825	OG1	THR	55	12.477	2.882	16.358	1.00	0.00
ATOM	826	CG2	THR	55	14.048	3.309	18.143	1.00	0.00
ATOM	829	H	THR	55	10.104	2.208	17.726	1.00	0.00
ATOM	830	HA	THR	55	12.689	1.008	18.347	1.00	0.00
ATOM	831	HB	THR	55	12.014	3.944	18.060	1.00	0.00
ATOM	832	HG1	THR	55	11.540	2.843	16.108	1.00	0.00
ATOM	833	1HG2	THR	55	14.219	2.987	19.160	1.00	0.00
ATOM	834	2HG2	THR	55	14.278	4.360	18.054	1.00	0.00
ATOM	835	3HG2	THR	55	14.683	2.744	17.475	1.00	0.00
ATOM	836	N	ARG	56	10.877	2.796	20.458	1.00	0.00
ATOM	837	CA	ARG	56	10.692	3.152	21.869	1.00	0.00
ATOM	845	C	ARG	56	10.060	2.012	22.682	1.00	0.00
ATOM	846	O	ARG	56	10.624	1.556	23.677	1.00	0.00
ATOM	838	CB	ARG	56	9.797	4.393	21.978	1.00	0.00
ATOM	839	CG	ARG	56	10.541	5.716	21.853	1.00	0.00
ATOM	840	CD	ARG	56	9.715	6.863	22.420	1.00	0.00
ATOM	841	NE	ARG	56	9.668	8.021	21.527	1.00	0.00
ATOM	842	CZ	ARG	56	9.877	9.279	21.921	1.00	0.00
ATOM	843	NH1	ARG	56	10.202	9.545	23.180	1.00	0.00
ATOM	844	NH2	ARG	56	9.768	10.268	21.048	1.00	0.00
ATOM	847	H	ARG	56	10.196	3.074	19.807	1.00	0.00
ATOM	848	HA	ARG	56	11.659	3.384	22.284	1.00	0.00
ATOM	849	1HB	ARG	56	9.301	4.376	22.938	1.00	0.00
ATOM	850	2HB	ARG	56	9.052	4.353	21.200	1.00	0.00
ATOM	851	1HG	ARG	56	10.741	5.909	20.809	1.00	0.00
ATOM	852	2HG	ARG	56	11.470	5.651	22.397	1.00	0.00
ATOM	853	1HD	ARG	56	10.146	7.169	23.362	1.00	0.00
ATOM	854	2HD	ARG	56	8.708	6.514	22.587	1.00	0.00
ATOM	855	HE	ARG	56	9.446	7.856	20.577	1.00	0.00
ATOM	856	1HH1	ARG	56	10.299	8.806	23.845	1.00	0.00
ATOM	857	2HH1	ARG	56	10.341	10.507	23.475	1.00	0.00
ATOM	858	1HH2	ARG	56	9.521	10.064	20.083	1.00	0.00
ATOM	859	2HH2	ARG	56	9.924	11.216	21.333	1.00	0.00
ATOM	860	N	PHE	57	8.882	1.576	22.257	1.00	0.00
ATOM	861	CA	PHE	57	8.136	0.510	22.930	1.00	0.00
ATOM	869	C	PHE	57	8.629	-0.873	22.500	1.00	0.00
ATOM	870	O	PHE	57	7.959	-1.579	21.746	1.00	0.00
ATOM	862	CB	PHE	57	6.645	0.657	22.597	1.00	0.00
ATOM	863	CG	PHE	57	5.699	0.047	23.598	1.00	0.00
ATOM	864	CD1	PHE	57	6.105	-0.255	24.890	1.00	0.00
ATOM	865	CD2	PHE	57	4.388	-0.215	23.237	1.00	0.00
ATOM	866	CE1	PHE	57	5.219	-0.807	25.798	1.00	0.00
ATOM	867	CE2	PHE	57	3.499	-0.765	24.138	1.00	0.00
ATOM	868	CZ	PHE	57	3.913	-1.061	25.420	1.00	0.00
ATOM	871	H	PHE	57	8.488	1.988	21.460	1.00	0.00
ATOM	872	HA	PHE	57	8.273	0.621	23.994	1.00	0.00
ATOM	873	1HB	PHE	57	6.455	0.193	21.640	1.00	0.00
ATOM	874	2HB	PHE	57	6.407	1.707	22.528	1.00	0.00
ATOM	875	HD1	PHE	57	4.061	0.014	22.233	1.00	0.00
ATOM	876	HD2	PHE	57	7.126	-0.058	25.185	1.00	0.00



ATOM	877	HE1	PHE	57	2.479	-0.962	23.840	1.00	0.00
ATOM	878	HE2	PHE	57	5.545	-1.039	26.802	1.00	0.00
ATOM	879	HZ	PHE	57	3.215	-1.488	26.126	1.00	0.00
ATOM	880	N	ARG	58	9.805	-1.253	22.985	1.00	0.00
ATOM	881	CA	ARG	58	10.397	-2.549	22.654	1.00	0.00
ATOM	889	C	ARG	58	9.727	-3.687	23.429	1.00	0.00
ATOM	890	O	ARG	58	9.956	-4.866	23.150	1.00	0.00
ATOM	882	CB	ARG	58	11.896	-2.533	22.957	1.00	0.00
ATOM	883	CG	ARG	58	12.702	-1.665	22.006	1.00	0.00
ATOM	884	CD	ARG	58	13.861	-0.995	22.724	1.00	0.00
ATOM	885	NE	ARG	58	14.600	-0.087	21.849	1.00	0.00
ATOM	886	CZ	ARG	58	15.924	-0.117	21.691	1.00	0.00
ATOM	887	NH1	ARG	58	16.654	-1.002	22.364	1.00	0.00
ATOM	888	NH2	ARG	58	16.517	0.742	20.869	1.00	0.00
ATOM	891	H	ARG	58	10.294	-0.643	23.580	1.00	0.00
ATOM	892	HA	ARG	58	10.255	-2.716	21.597	1.00	0.00
ATOM	893	1HB	ARG	58	12.274	-3.542	22.901	1.00	0.00
ATOM	894	2HB	ARG	58	12.042	-2.159	23.961	1.00	0.00
ATOM	895	1HG	ARG	58	12.057	-0.904	21.592	1.00	0.00
ATOM	896	2HG	ARG	58	13.093	-2.283	21.212	1.00	0.00
ATOM	897	1HD	ARG	58	14.533	-1.759	23.085	1.00	0.00
ATOM	898	2HD	ARG	58	13.472	-0.434	23.561	1.00	0.00
ATOM	899	HE	ARG	58	14.074	0.586	21.350	1.00	0.00
ATOM	900	1HH1	ARG	58	16.210	-1.647	22.995	1.00	0.00
ATOM	901	2HH1	ARG	58	17.650	-1.032	22.246	1.00	0.00
ATOM	902	1HH2	ARG	58	15.972	1.415	20.365	1.00	0.00
ATOM	903	2HH2	ARG	58	17.511	0.726	20.750	1.00	0.00
ATOM	904	N	ARG	59	8.900	-3.331	24.401	1.00	0.00
ATOM	905	CA	ARG	59	8.200	-4.318	25.218	1.00	0.00
ATOM	913	C	ARG	59	6.917	-4.779	24.532	1.00	0.00
ATOM	914	O	ARG	59	5.831	-4.691	25.101	1.00	0.00
ATOM	906	CB	ARG	59	7.872	-3.723	26.587	1.00	0.00
ATOM	907	CG	ARG	59	8.350	-4.573	27.751	1.00	0.00
ATOM	908	CD	ARG	59	8.303	-3.794	29.054	1.00	0.00
ATOM	909	NE	ARG	59	9.580	-3.837	29.762	1.00	0.00
ATOM	910	CZ	ARG	59	9.764	-4.446	30.930	1.00	0.00
ATOM	911	NH1	ARG	59	8.758	-5.076	31.523	1.00	0.00
ATOM	912	NH2	ARG	59	10.960	-4.429	31.501	1.00	0.00
ATOM	915	H	ARG	59	8.755	-2.380	24.575	1.00	0.00
ATOM	916	HA	ARG	59	8.854	-5.167	25.349	1.00	0.00
ATOM	917	1HB	ARG	59	6.802	-3.608	26.670	1.00	0.00
ATOM	918	2HB	ARG	59	8.337	-2.752	26.664	1.00	0.00
ATOM	919	1HG	ARG	59	9.367	-4.884	27.565	1.00	0.00
ATOM	920	2HG	ARG	59	7.714	-5.442	27.839	1.00	0.00
ATOM	921	1HD	ARG	59	7.538	-4.219	29.686	1.00	0.00
ATOM	922	2HD	ARG	59	8.058	-2.766	28.834	1.00	0.00
ATOM	923	HE	ARG	59	10.352	-3.384	29.337	1.00	0.00
ATOM	924	1HH1	ARG	59	7.852	-5.093	31.098	1.00	0.00
ATOM	925	2HH1	ARG	59	8.905	-5.559	32.397	1.00	0.00
ATOM	926	1HH2	ARG	59	11.726	-3.961	31.051	1.00	0.00
ATOM	927	2HH2	ARG	59	11.108	-4.885	32.393	1.00	0.00
ATOM	928	N	THR	60	7.046	-5.244	23.301	1.00	0.00
ATOM	929	CA	THR	60	5.896	-5.694	22.532	1.00	0.00
ATOM	933	C	THR	60	6.034	-7.154	22.103	1.00	0.00
ATOM	934	O	THR	60	5.174	-7.984	22.392	1.00	0.00
ATOM	930	CB	THR	60	5.730	-4.819	21.279	1.00	0.00
ATOM	931	OG1	THR	60	7.000	-4.261	20.916	1.00	0.00
ATOM	932	CG2	THR	60	4.737	-3.697	21.527	1.00	0.00
ATOM	935	H	THR	60	7.936	-5.268	22.889	1.00	0.00
ATOM	936	HA	THR	60	5.015	-5.583	23.144	1.00	0.00
ATOM	937	HB	THR	60	5.365	-5.434	20.469	1.00	0.00
ATOM	938	HG1	THR	60	6.978	-3.303	21.037	1.00	0.00
ATOM	939	1HG2	THR	60	4.244	-3.439	20.601	1.00	0.00
ATOM	940	2HG2	THR	60	5.261	-2.833	21.907	1.00	0.00
ATOM	941	3HG2	THR	60	4.002	-4.020	22.249	1.00	0.00
ATOM	942	N	PHE	61	7.114	-7.442	21.384	1.00	0.00
ATOM	943	CA	PHE	61	7.387	-8.781	20.858	1.00	0.00
ATOM	951	C	PHE	61	7.392	-9.863	21.939	1.00	0.00
ATOM	952	O	PHE	61	7.041	-11.009	21.675	1.00	0.00
ATOM	944	CB	PHE	61	8.725	-8.785	20.115	1.00	0.00
ATOM	945	CG	PHE	61	8.699	-7.998	18.835	1.00	0.00
ATOM	946	CD1	PHE	61	8.003	-8.465	17.731	1.00	0.00
ATOM	947	CD2	PHE	61	9.365	-6.786	18.739	1.00	0.00



ATOM	948	CE1	PHE	61	7.972	-7.739	16.556	1.00	0.00
ATOM	949	CE2	PHE	61	9.336	-6.056	17.567	1.00	0.00
ATOM	950	CZ	PHE	61	8.639	-6.533	16.474	1.00	0.00
ATOM	953	H	PHE	61	7.742	-6.718	21.173	1.00	0.00
ATOM	954	HA	PHE	61	6.604	-9.013	20.152	1.00	0.00
ATOM	955	1HB	PHE	61	8.994	-9.804	19.876	1.00	0.00
ATOM	956	2HB	PHE	61	9.485	-8.358	20.752	1.00	0.00
ATOM	957	HD1	PHE	61	9.910	-6.413	19.592	1.00	0.00
ATOM	958	HD2	PHE	61	7.480	-9.408	17.795	1.00	0.00
ATOM	959	HE1	PHE	61	9.859	-5.113	17.503	1.00	0.00
ATOM	960	HE2	PHE	61	7.426	-8.115	15.703	1.00	0.00
ATOM	961	HZ	PHE	61	8.615	-5.964	15.556	1.00	0.00
ATOM	962	N	SER	62	7.798	-9.510	23.145	1.00	0.00
ATOM	963	CA	SER	62	7.854	-10.472	24.236	1.00	0.00
ATOM	966	C	SER	62	6.466	-10.952	24.653	1.00	0.00
ATOM	967	O	SER	62	6.278	-12.134	24.948	1.00	0.00
ATOM	964	CB	SER	62	8.588	-9.849	25.421	1.00	0.00
ATOM	965	OG	SER	62	9.316	-8.704	25.008	1.00	0.00
ATOM	968	H	SER	62	8.078	-8.588	23.309	1.00	0.00
ATOM	969	HA	SER	62	8.410	-11.326	23.885	1.00	0.00
ATOM	970	1HB	SER	62	9.276	-10.570	25.838	1.00	0.00
ATOM	971	2HB	SER	62	7.871	-9.554	26.175	1.00	0.00
ATOM	972	HG	SER	62	10.151	-8.985	24.604	1.00	0.00
ATOM	973	N	ASP	63	5.494	-10.048	24.670	1.00	0.00
ATOM	974	CA	ASP	63	4.130	-10.410	25.051	1.00	0.00
ATOM	979	C	ASP	63	3.493	-11.266	23.973	1.00	0.00
ATOM	980	O	ASP	63	2.552	-12.015	24.231	1.00	0.00
ATOM	975	CB	ASP	63	3.286	-9.158	25.324	1.00	0.00
ATOM	976	CG	ASP	63	3.279	-8.762	26.793	1.00	0.00
ATOM	977	OD1	ASP	63	4.308	-8.966	27.472	1.00	0.00
ATOM	978	OD2	ASP	63	2.247	-8.245	27.272	1.00	0.00
ATOM	981	H	ASP	63	5.693	-9.122	24.422	1.00	0.00
ATOM	982	HA	ASP	63	4.187	-11.007	25.949	1.00	0.00
ATOM	983	1HB	ASP	63	2.268	-9.348	25.017	1.00	0.00
ATOM	984	2HB	ASP	63	3.682	-8.332	24.751	1.00	0.00
ATOM	985	N	LEU	64	4.041	-11.186	22.774	1.00	0.00
ATOM	986	CA	LEU	64	3.559	-11.986	21.663	1.00	0.00
ATOM	991	C	LEU	64	3.925	-13.441	21.907	1.00	0.00
ATOM	992	O	LEU	64	3.127	-14.349	21.677	1.00	0.00
ATOM	987	CB	LEU	64	4.187	-11.512	20.355	1.00	0.00
ATOM	988	CG	LEU	64	4.176	-10.002	20.126	1.00	0.00
ATOM	989	CD1	LEU	64	4.841	-9.671	18.805	1.00	0.00
ATOM	990	CD2	LEU	64	2.757	-9.455	20.162	1.00	0.00
ATOM	993	H	LEU	64	4.810	-10.595	22.640	1.00	0.00
ATOM	994	HA	LEU	64	2.486	-11.886	21.609	1.00	0.00
ATOM	995	1HB	LEU	64	3.666	-11.984	19.535	1.00	0.00
ATOM	996	2HB	LEU	64	5.218	-11.844	20.344	1.00	0.00
ATOM	997	HG	LEU	64	4.741	-9.523	20.913	1.00	0.00
ATOM	998	1HD1	LEU	64	5.804	-9.218	18.991	1.00	0.00
ATOM	999	2HD1	LEU	64	4.221	-8.983	18.251	1.00	0.00
ATOM	1000	3HD1	LEU	64	4.975	-10.576	18.232	1.00	0.00
ATOM	1001	1HD2	LEU	64	2.550	-8.927	19.242	1.00	0.00
ATOM	1002	2HD2	LEU	64	2.653	-8.776	20.996	1.00	0.00
ATOM	1003	3HD2	LEU	64	2.060	-10.271	20.274	1.00	0.00
ATOM	1004	N	ALA	65	5.141	-13.640	22.397	1.00	0.00
ATOM	1005	CA	ALA	65	5.638	-14.970	22.697	1.00	0.00
ATOM	1007	C	ALA	65	4.962	-15.510	23.942	1.00	0.00
ATOM	1008	O	ALA	65	4.536	-16.661	23.973	1.00	0.00
ATOM	1006	CB	ALA	65	7.149	-14.947	22.872	1.00	0.00
ATOM	1009	H	ALA	65	5.716	-12.863	22.573	1.00	0.00
ATOM	1010	HA	ALA	65	5.401	-15.613	21.861	1.00	0.00
ATOM	1011	1HB	ALA	65	7.606	-15.612	22.155	1.00	0.00
ATOM	1012	2HB	ALA	65	7.402	-15.268	23.873	1.00	0.00
ATOM	1013	3HB	ALA	65	7.515	-13.942	22.714	1.00	0.00
ATOM	1014	N	ALA	66	4.849	-14.659	24.957	1.00	0.00
ATOM	1015	CA	ALA	66	4.202	-15.033	26.210	1.00	0.00
ATOM	1017	C	ALA	66	2.791	-15.558	25.951	1.00	0.00
ATOM	1018	O	ALA	66	2.374	-16.566	26.522	1.00	0.00
ATOM	1016	CB	ALA	66	4.166	-13.844	27.155	1.00	0.00
ATOM	1019	H	ALA	66	5.203	-13.744	24.857	1.00	0.00
ATOM	1020	HA	ALA	66	4.786	-15.813	26.673	1.00	0.00
ATOM	1021	1HB	ALA	66	3.198	-13.791	27.631	1.00	0.00
ATOM	1022	2HB	ALA	66	4.345	-12.937	26.599	1.00	0.00



ATOM	1023	3HB	ALA	66	4.931	-13.961	27.910	1.00	0.00
ATOM	1024	N	GLN	67	2.071	-14.864	25.078	1.00	0.00
ATOM	1025	CA	GLN	67	0.703	-15.244	24.721	1.00	0.00
ATOM	1031	C	GLN	67	0.636	-16.609	24.039	1.00	0.00
ATOM	1032	O	GLN	67	-0.083	-17.505	24.482	1.00	0.00
ATOM	1026	CB	GLN	67	0.102	-14.217	23.767	1.00	0.00
ATOM	1027	CG	GLN	67	-0.536	-13.029	24.448	1.00	0.00
ATOM	1028	CD	GLN	67	-0.906	-11.955	23.450	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.060	-11.839	23.043	1.00	0.00
ATOM	1030	NE2	GLN	67	0.076	-11.169	23.043	1.00	0.00
ATOM	1033	H	GLN	67	2.474	-14.065	24.660	1.00	0.00
ATOM	1034	HA	GLN	67	0.115	-15.270	25.624	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.651	-14.705	23.165	1.00	0.00
ATOM	1036	2HB	GLN	67	0.883	-13.851	23.117	1.00	0.00
ATOM	1037	1HG	GLN	67	0.164	-12.616	25.161	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.430	-13.354	24.960	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.977	-11.328	23.406	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.132	-10.463	22.398	1.00	0.00
ATOM	1041	N	LEU	68	1.348	-16.739	22.928	1.00	0.00
ATOM	1042	CA	LEU	68	1.330	-17.968	22.139	1.00	0.00
ATOM	1047	C	LEU	68	2.238	-19.059	22.707	1.00	0.00
ATOM	1048	O	LEU	68	2.434	-20.095	22.072	1.00	0.00
ATOM	1043	CB	LEU	68	1.724	-17.660	20.689	1.00	0.00
ATOM	1044	CG	LEU	68	0.605	-17.083	19.805	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.769	-17.519	20.299	1.00	0.00
ATOM	1046	CD2	LEU	68	0.695	-15.564	19.753	1.00	0.00
ATOM	1049	H	LEU	68	1.872	-15.973	22.605	1.00	0.00
ATOM	1050	HA	LEU	68	0.316	-18.336	22.143	1.00	0.00
ATOM	1051	1HB	LEU	68	2.073	-18.574	20.232	1.00	0.00
ATOM	1052	2HB	LEU	68	2.541	-16.952	20.704	1.00	0.00
ATOM	1053	HG	LEU	68	0.726	-17.458	18.801	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.530	-17.091	19.665	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.912	-17.179	21.314	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.837	-18.597	20.267	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.898	-15.180	20.743	1.00	0.00
ATOM	1058	2HD2	LEU	68	-0.240	-15.160	19.395	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.492	-15.275	19.084	1.00	0.00
ATOM	1060	N	HIS	69	2.786	-18.838	23.894	1.00	0.00
ATOM	1061	CA	HIS	69	3.662	-19.828	24.510	1.00	0.00
ATOM	1068	C	HIS	69	2.845	-20.947	25.142	1.00	0.00
ATOM	1069	O	HIS	69	3.339	-22.057	25.334	1.00	0.00
ATOM	1062	CB	HIS	69	4.557	-19.180	25.568	1.00	0.00
ATOM	1063	CG	HIS	69	5.844	-19.911	25.793	1.00	0.00
ATOM	1064	ND1	HIS	69	6.927	-19.817	24.943	1.00	0.00
ATOM	1065	CD2	HIS	69	6.217	-20.757	26.781	1.00	0.00
ATOM	1066	CE1	HIS	69	7.907	-20.572	25.401	1.00	0.00
ATOM	1067	NE2	HIS	69	7.503	-21.152	26.513	1.00	0.00
ATOM	1070	H	HIS	69	2.606	-17.995	24.360	1.00	0.00
ATOM	1071	HA	HIS	69	4.284	-20.248	23.734	1.00	0.00
ATOM	1072	1HB	HIS	69	4.025	-19.145	26.508	1.00	0.00
ATOM	1073	2HB	HIS	69	4.797	-18.173	25.259	1.00	0.00
ATOM	1074	HD1	HIS	69	6.972	-19.277	24.119	1.00	0.00
ATOM	1075	HD2	HIS	69	5.614	-21.063	27.624	1.00	0.00
ATOM	1076	HE1	HIS	69	8.877	-20.694	24.940	1.00	0.00
ATOM	1077	HE2	HIS	69	8.090	-21.647	27.140	1.00	0.00
ATOM	1078	N	VAL	70	1.595	-20.648	25.462	1.00	0.00
ATOM	1079	CA	VAL	70	0.709	-21.633	26.068	1.00	0.00
ATOM	1083	C	VAL	70	-0.075	-22.386	24.998	1.00	0.00
ATOM	1084	O	VAL	70	0.067	-23.601	24.849	1.00	0.00
ATOM	1080	CB	VAL	70	-0.286	-20.996	27.067	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.171	-21.665	28.427	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.064	-19.492	27.190	1.00	0.00
ATOM	1085	H	VAL	70	1.260	-19.744	25.282	1.00	0.00
ATOM	1086	HA	VAL	70	1.324	-22.339	26.608	1.00	0.00
ATOM	1087	HB	VAL	70	-1.289	-21.159	26.696	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.047	-22.730	28.295	1.00	0.00
ATOM	1089	2HG1	VAL	70	-1.067	-21.475	28.999	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.684	-21.265	28.953	1.00	0.00
ATOM	1091	1HG2	VAL	70	0.870	-19.227	26.720	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.033	-19.218	28.234	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.874	-18.968	26.704	1.00	0.00
ATOM	1094	N	THR	71	-0.908	-21.657	24.264	1.00	0.00
ATOM	1095	CA	THR	71	-1.726	-22.244	23.215	1.00	0.00



ATOM	1099	C	THR	71	-2.447	-21.144	22.429	1.00	0.00
ATOM	1100	O	THR	71	-2.842	-20.121	22.998	1.00	0.00
ATOM	1096	CB	THR	71	-2.760	-23.241	23.804	1.00	0.00
ATOM	1097	OG1	THR	71	-3.512	-23.874	22.761	1.00	0.00
ATOM	1098	CG2	THR	71	-3.717	-22.547	24.769	1.00	0.00
ATOM	1101	H	THR	71	-0.979	-20.695	24.438	1.00	0.00
ATOM	1102	HA	THR	71	-1.073	-22.784	22.545	1.00	0.00
ATOM	1103	HB	THR	71	-2.221	-24.002	24.352	1.00	0.00
ATOM	1104	HG1	THR	71	-4.257	-23.314	22.518	1.00	0.00
ATOM	1105	1HG2	THR	71	-4.735	-22.725	24.456	1.00	0.00
ATOM	1106	2HG2	THR	71	-3.519	-21.486	24.769	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.572	-22.941	25.763	1.00	0.00
ATOM	1108	N	PRO	72	-2.619	-21.331	21.111	1.00	0.00
ATOM	1109	CA	PRO	72	-3.293	-20.360	20.254	1.00	0.00
ATOM	1113	C	PRO	72	-4.809	-20.433	20.407	1.00	0.00
ATOM	1114	O	PRO	72	-5.334	-21.344	21.050	1.00	0.00
ATOM	1110	CB	PRO	72	-2.886	-20.771	18.829	1.00	0.00
ATOM	1111	CG	PRO	72	-1.953	-21.934	18.975	1.00	0.00
ATOM	1112	CD	PRO	72	-2.175	-22.500	20.347	1.00	0.00
ATOM	1115	HA	PRO	72	-2.957	-19.352	20.454	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.398	-19.939	18.341	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.769	-21.047	18.271	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.931	-21.597	18.870	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.179	-22.679	18.226	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.253	-22.896	20.747	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.940	-23.263	20.324	1.00	0.00
ATOM	1122	N	GLY	73	-5.514	-19.483	19.804	1.00	0.00
ATOM	1123	CA	GLY	73	-6.963	-19.479	19.879	1.00	0.00
ATOM	1124	C	GLY	73	-7.507	-18.554	20.952	1.00	0.00
ATOM	1125	O	GLY	73	-8.246	-17.617	20.652	1.00	0.00
ATOM	1126	H	GLY	73	-5.048	-18.786	19.293	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.301	-20.484	20.085	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.359	-19.170	18.922	1.00	0.00
ATOM	1129	N	SER	74	-7.147	-18.816	22.204	1.00	0.00
ATOM	1130	CA	SER	74	-7.617	-18.013	23.336	1.00	0.00
ATOM	1133	C	SER	74	-6.927	-16.645	23.410	1.00	0.00
ATOM	1134	O	SER	74	-6.930	-15.991	24.454	1.00	0.00
ATOM	1131	CB	SER	74	-7.379	-18.785	24.630	1.00	0.00
ATOM	1132	OG	SER	74	-6.421	-19.816	24.432	1.00	0.00
ATOM	1135	H	SER	74	-6.558	-19.583	22.384	1.00	0.00
ATOM	1136	HA	SER	74	-8.678	-17.860	23.212	1.00	0.00
ATOM	1137	1HB	SER	74	-8.308	-19.230	24.958	1.00	0.00
ATOM	1138	2HB	SER	74	-7.013	-18.110	25.389	1.00	0.00
ATOM	1139	HG	SER	74	-6.593	-20.533	25.053	1.00	0.00
ATOM	1140	N	ALA	75	-6.343	-16.213	22.303	1.00	0.00
ATOM	1141	CA	ALA	75	-5.660	-14.930	22.255	1.00	0.00
ATOM	1143	C	ALA	75	-6.655	-13.779	22.188	1.00	0.00
ATOM	1144	O	ALA	75	-6.327	-12.646	22.539	1.00	0.00
ATOM	1142	CB	ALA	75	-4.711	-14.883	21.068	1.00	0.00
ATOM	1145	H	ALA	75	-6.376	-16.769	21.499	1.00	0.00
ATOM	1146	HA	ALA	75	-5.075	-14.831	23.153	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.919	-15.712	20.408	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.692	-14.949	21.418	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.850	-13.954	20.533	1.00	0.00
ATOM	1150	N	GLN	76	-7.868	-14.074	21.729	1.00	0.00
ATOM	1151	CA	GLN	76	-8.905	-13.054	21.602	1.00	0.00
ATOM	1157	C	GLN	76	-9.272	-12.443	22.943	1.00	0.00
ATOM	1158	O	GLN	76	-9.485	-11.236	23.033	1.00	0.00
ATOM	1152	CB	GLN	76	-10.146	-13.612	20.901	1.00	0.00
ATOM	1153	CG	GLN	76	-10.552	-14.994	21.365	1.00	0.00
ATOM	1154	CD	GLN	76	-11.931	-15.385	20.886	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.788	-15.767	21.677	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.153	-15.294	19.585	1.00	0.00
ATOM	1159	H	GLN	76	-8.066	-14.995	21.461	1.00	0.00
ATOM	1160	HA	GLN	76	-8.496	-12.268	20.984	1.00	0.00
ATOM	1161	1HB	GLN	76	-9.953	-13.657	19.838	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.974	-12.943	21.077	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.542	-15.008	22.436	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.839	-15.713	20.989	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.425	-14.986	19.007	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.045	-15.540	19.249	1.00	0.00
ATOM	1167	N	GLN	77	-9.338	-13.261	23.984	1.00	0.00
ATOM	1168	CA	GLN	77	-9.676	-12.760	25.308	1.00	0.00



ATOM	1174	C	GLN	77	-8.567	-11.865	25.837	1.00	0.00
ATOM	1175	O	GLN	77	-8.830	-10.775	26.335	1.00	0.00
ATOM	1169	CB	GLN	77	-9.935	-13.913	26.278	1.00	0.00
ATOM	1170	CG	GLN	77	-11.239	-14.644	26.014	1.00	0.00
ATOM	1171	CD	GLN	77	-11.031	-16.120	25.745	1.00	0.00
ATOM	1172	OE1	GLN	77	-10.350	-16.500	24.790	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.612	-16.961	26.587	1.00	0.00
ATOM	1176	H	GLN	77	-9.152	-14.217	23.861	1.00	0.00
ATOM	1177	HA	GLN	77	-10.575	-12.167	25.212	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.963	-13.523	27.284	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.125	-14.623	26.197	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.722	-14.201	25.154	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.878	-14.539	26.878	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.140	-16.583	27.330	1.00	0.00
ATOM	1183	2HE2	GLN	77	-11.488	-17.920	26.441	1.00	0.00
ATOM	1184	N	ARG	78	-7.329	-12.320	25.708	1.00	0.00
ATOM	1185	CA	ARG	78	-6.182	-11.545	26.161	1.00	0.00
ATOM	1193	C	ARG	78	-6.129	-10.210	25.430	1.00	0.00
ATOM	1194	O	ARG	78	-5.922	-9.162	26.044	1.00	0.00
ATOM	1186	CB	ARG	78	-4.882	-12.322	25.925	1.00	0.00
ATOM	1187	CG	ARG	78	-4.517	-13.269	27.055	1.00	0.00
ATOM	1188	CD	ARG	78	-4.134	-14.643	26.528	1.00	0.00
ATOM	1189	NE	ARG	78	-4.720	-15.716	27.330	1.00	0.00
ATOM	1190	CZ	ARG	78	-4.835	-16.980	26.926	1.00	0.00
ATOM	1191	NH1	ARG	78	-4.414	-17.338	25.717	1.00	0.00
ATOM	1192	NH2	ARG	78	-5.371	-17.884	27.736	1.00	0.00
ATOM	1195	H	ARG	78	-7.183	-13.189	25.290	1.00	0.00
ATOM	1196	HA	ARG	78	-6.300	-11.359	27.218	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.073	-11.617	25.801	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.983	-12.901	25.020	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.365	-13.369	27.716	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.680	-12.857	27.601	1.00	0.00
ATOM	1201	1HD	ARG	78	-3.059	-14.737	26.548	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.485	-14.735	25.512	1.00	0.00
ATOM	1203	HE	ARG	78	-5.051	-15.471	28.234	1.00	0.00
ATOM	1204	1HH1	ARG	78	-4.008	-16.658	25.106	1.00	0.00
ATOM	1205	2HH1	ARG	78	-4.508	-18.289	25.409	1.00	0.00
ATOM	1206	1HH2	ARG	78	-5.687	-17.615	28.657	1.00	0.00
ATOM	1207	2HH2	ARG	78	-5.474	-18.838	27.437	1.00	0.00
ATOM	1208	N	PHE	79	-6.329	-10.259	24.119	1.00	0.00
ATOM	1209	CA	PHE	79	-6.314	-9.062	23.296	1.00	0.00
ATOM	1217	C	PHE	79	-7.426	-8.105	23.707	1.00	0.00
ATOM	1218	O	PHE	79	-7.173	-6.924	23.948	1.00	0.00
ATOM	1210	CB	PHE	79	-6.457	-9.426	21.818	1.00	0.00
ATOM	1211	CG	PHE	79	-6.042	-8.324	20.885	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.719	-7.918	20.816	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.976	-7.693	20.079	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.335	-6.904	19.960	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.598	-6.678	19.221	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.275	-6.282	19.162	1.00	0.00
ATOM	1219	H	PHE	79	-6.494	-11.130	23.693	1.00	0.00
ATOM	1220	HA	PHE	79	-5.363	-8.574	23.444	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.491	-9.666	21.611	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.843	-10.288	21.604	1.00	0.00
ATOM	1223	HD1	PHE	79	-8.011	-8.001	20.124	1.00	0.00
ATOM	1224	HD2	PHE	79	-3.984	-8.403	21.440	1.00	0.00
ATOM	1225	HE1	PHE	79	-7.334	-6.194	18.598	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.300	-6.598	19.916	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.977	-5.489	18.492	1.00	0.00
ATOM	1228	N	THR	80	-8.656	-8.611	23.784	1.00	0.00
ATOM	1229	CA	THR	80	-9.796	-7.780	24.164	1.00	0.00
ATOM	1233	C	THR	80	-9.608	-7.164	25.549	1.00	0.00
ATOM	1234	O	THR	80	-10.045	-6.037	25.789	1.00	0.00
ATOM	1230	CB	THR	80	-11.125	-8.561	24.134	1.00	0.00
ATOM	1231	OG1	THR	80	-10.947	-9.869	24.683	1.00	0.00
ATOM	1232	CG2	THR	80	-11.656	-8.669	22.713	1.00	0.00
ATOM	1235	H	THR	80	-8.800	-9.565	23.571	1.00	0.00
ATOM	1236	HA	THR	80	-9.865	-6.979	23.441	1.00	0.00
ATOM	1237	HB	THR	80	-11.849	-8.029	24.732	1.00	0.00
ATOM	1238	HG1	THR	80	-10.592	-10.455	24.004	1.00	0.00
ATOM	1239	1HG2	THR	80	-10.968	-9.246	22.114	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.759	-7.680	22.291	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.620	-9.157	22.725	1.00	0.00



ATOM	1242	N	GLN	81	-8.949	-7.888	26.455	1.00	0.00
ATOM	1243	CA	GLN	81	-8.717	-7.373	27.800	1.00	0.00
ATOM	1249	C	GLN	81	-7.839	-6.138	27.738	1.00	0.00
ATOM	1250	O	GLN	81	-8.171	-5.093	28.296	1.00	0.00
ATOM	1244	CB	GLN	81	-8.070	-8.426	28.694	1.00	0.00
ATOM	1245	CG	GLN	81	-9.009	-9.561	29.035	1.00	0.00
ATOM	1246	CD	GLN	81	-10.320	-9.087	29.629	1.00	0.00
ATOM	1247	OE1	GLN	81	-10.366	-8.600	30.758	1.00	0.00
ATOM	1248	NE2	GLN	81	-11.395	-9.236	28.872	1.00	0.00
ATOM	1251	H	GLN	81	-8.608	-8.784	26.211	1.00	0.00
ATOM	1252	HA	GLN	81	-9.674	-7.106	28.216	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.752	-7.959	29.613	1.00	0.00
ATOM	1254	2HB	GLN	81	-7.209	-8.835	28.187	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.523	-10.223	29.737	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.225	-10.093	28.126	1.00	0.00
ATOM	1257	1HE2	GLN	81	-11.284	-9.638	27.985	1.00	0.00
ATOM	1258	2HE2	GLN	81	-12.260	-8.944	29.232	1.00	0.00
ATOM	1259	N	VAL	82	-6.727	-6.266	27.035	1.00	0.00
ATOM	1260	CA	VAL	82	-5.795	-5.162	26.872	1.00	0.00
ATOM	1264	C	VAL	82	-6.453	-4.017	26.109	1.00	0.00
ATOM	1265	O	VAL	82	-6.228	-2.849	26.413	1.00	0.00
ATOM	1261	CB	VAL	82	-4.519	-5.604	26.128	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.564	-4.437	25.963	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.850	-6.751	26.865	1.00	0.00
ATOM	1266	H	VAL	82	-6.531	-7.128	26.604	1.00	0.00
ATOM	1267	HA	VAL	82	-5.512	-4.813	27.857	1.00	0.00
ATOM	1268	HB	VAL	82	-4.796	-5.951	25.144	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.110	-3.509	26.058	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.101	-4.485	24.989	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.801	-4.485	26.727	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.844	-7.629	26.237	1.00	0.00
ATOM	1273	2HG2	VAL	82	-4.393	-6.961	27.774	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.834	-6.478	27.108	1.00	0.00
ATOM	1275	N	SER	83	-7.278	-4.364	25.129	1.00	0.00
ATOM	1276	CA	SER	83	-7.976	-3.368	24.330	1.00	0.00
ATOM	1279	C	SER	83	-8.899	-2.522	25.205	1.00	0.00
ATOM	1280	O	SER	83	-8.897	-1.295	25.112	1.00	0.00
ATOM	1277	CB	SER	83	-8.773	-4.044	23.212	1.00	0.00
ATOM	1278	OG	SER	83	-7.937	-4.864	22.414	1.00	0.00
ATOM	1281	H	SER	83	-7.425	-5.317	24.942	1.00	0.00
ATOM	1282	HA	SER	83	-7.234	-2.720	23.886	1.00	0.00
ATOM	1283	1HB	SER	83	-9.222	-3.289	22.585	1.00	0.00
ATOM	1284	2HB	SER	83	-9.549	-4.658	23.647	1.00	0.00
ATOM	1285	HG	SER	83	-7.496	-5.517	22.973	1.00	0.00
ATOM	1286	N	ASP	84	-9.672	-3.183	26.065	1.00	0.00
ATOM	1287	CA	ASP	84	-10.587	-2.483	26.963	1.00	0.00
ATOM	1292	C	ASP	84	-9.805	-1.617	27.942	1.00	0.00
ATOM	1293	O	ASP	84	-10.193	-0.488	28.243	1.00	0.00
ATOM	1288	CB	ASP	84	-11.474	-3.476	27.719	1.00	0.00
ATOM	1289	CG	ASP	84	-12.954	-3.273	27.438	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.300	-2.733	26.363	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.782	-3.656	28.290	1.00	0.00
ATOM	1294	H	ASP	84	-9.622	-4.164	26.103	1.00	0.00
ATOM	1295	HA	ASP	84	-11.213	-1.841	26.359	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.306	-3.360	28.780	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.209	-4.479	27.426	1.00	0.00
ATOM	1298	N	GLU	85	-8.683	-2.143	28.418	1.00	0.00
ATOM	1299	CA	GLU	85	-7.830	-1.413	29.346	1.00	0.00
ATOM	1305	C	GLU	85	-7.187	-0.219	28.646	1.00	0.00
ATOM	1306	O	GLU	85	-6.889	0.794	29.274	1.00	0.00
ATOM	1300	CB	GLU	85	-6.749	-2.331	29.923	1.00	0.00
ATOM	1301	CG	GLU	85	-7.268	-3.287	30.985	1.00	0.00
ATOM	1302	CD	GLU	85	-6.754	-2.962	32.373	1.00	0.00
ATOM	1303	OE1	GLU	85	-6.685	-1.769	32.726	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.417	-3.905	33.123	1.00	0.00
ATOM	1307	H	GLU	85	-8.415	-3.043	28.128	1.00	0.00
ATOM	1308	HA	GLU	85	-8.452	-1.051	30.150	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.973	-1.725	30.364	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.325	-2.917	29.121	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.957	-4.288	30.729	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.347	-3.239	30.998	1.00	0.00
ATOM	1313	N	LEU	86	-6.987	-0.347	27.339	1.00	0.00
ATOM	1314	CA	LEU	86	-6.389	0.713	26.538	1.00	0.00



ATOM	1319	C	LEU	86	-7.403	1.823	26.266	1.00	0.00
ATOM	1320	O	LEU	86	-7.065	3.005	26.270	1.00	0.00
ATOM	1315	CB	LEU	86	-5.874	0.148	25.210	1.00	0.00
ATOM	1316	CG	LEU	86	-4.365	-0.102	25.142	1.00	0.00
ATOM	1317	CD1	LEU	86	-4.066	-1.370	24.361	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.657	1.081	24.507	1.00	0.00
ATOM	1321	H	LEU	86	-7.254	-1.183	26.899	1.00	0.00
ATOM	1322	HA	LEU	86	-5.559	1.124	27.092	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.136	0.840	24.424	1.00	0.00
ATOM	1324	2HB	LEU	86	-6.380	-0.788	25.023	1.00	0.00
ATOM	1325	HG	LEU	86	-3.980	-0.226	26.145	1.00	0.00
ATOM	1326	1HD1	LEU	86	-4.653	-2.185	24.760	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.016	-1.608	24.448	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.318	-1.220	23.322	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.951	1.989	25.010	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.925	1.142	23.463	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.587	0.949	24.598	1.00	0.00
ATOM	1332	N	PHE	87	-8.649	1.435	26.026	1.00	0.00
ATOM	1333	CA	PHE	87	-9.707	2.399	25.748	1.00	0.00
ATOM	1341	C	PHE	87	-10.269	2.983	27.041	1.00	0.00
ATOM	1342	O	PHE	87	-11.059	3.926	27.010	1.00	0.00
ATOM	1334	CB	PHE	87	-10.825	1.741	24.936	1.00	0.00
ATOM	1335	CG	PHE	87	-11.782	2.721	24.314	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.345	3.629	23.363	1.00	0.00
ATOM	1337	CD2	PHE	87	-13.117	2.733	24.684	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.222	4.533	22.794	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.999	3.635	24.118	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.551	4.536	23.172	1.00	0.00
ATOM	1343	H	PHE	87	-8.863	0.475	26.032	1.00	0.00
ATOM	1344	HA	PHE	87	-9.277	3.200	25.165	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.392	1.088	25.584	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.386	1.158	24.142	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.307	3.628	23.066	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.469	2.030	25.423	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.869	5.235	22.054	1.00	0.00
ATOM	1350	HE2	PHE	87	-15.037	3.634	24.416	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.238	5.241	22.728	1.00	0.00
ATOM	1352	N	GLN	88	-9.854	2.406	28.171	1.00	0.00
ATOM	1353	CA	GLN	88	-10.302	2.845	29.493	1.00	0.00
ATOM	1359	C	GLN	88	-10.225	4.363	29.643	1.00	0.00
ATOM	1360	O	GLN	88	-11.102	4.982	30.249	1.00	0.00
ATOM	1354	CB	GLN	88	-9.457	2.184	30.581	1.00	0.00
ATOM	1355	CG	GLN	88	-10.272	1.603	31.725	1.00	0.00
ATOM	1356	CD	GLN	88	-9.474	0.626	32.571	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.916	0.205	33.640	1.00	0.00
ATOM	1358	NE2	GLN	88	-8.288	0.266	32.102	1.00	0.00
ATOM	1361	H	GLN	88	-9.230	1.651	28.111	1.00	0.00
ATOM	1362	HA	GLN	88	-11.329	2.536	29.613	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.778	2.918	30.987	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.883	1.384	30.135	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.127	1.086	31.316	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.608	2.411	32.358	1.00	0.00
ATOM	1367	1HE2	GLN	88	-7.992	0.646	31.249	1.00	0.00
ATOM	1368	2HE2	GLN	88	-7.754	-0.384	32.623	1.00	0.00
ATOM	1369	N	GLY	89	-9.179	4.962	29.090	1.00	0.00
ATOM	1370	CA	GLY	89	-9.034	6.398	29.177	1.00	0.00
ATOM	1371	C	GLY	89	-7.744	6.903	28.569	1.00	0.00
ATOM	1372	O	GLY	89	-6.965	7.575	29.242	1.00	0.00
ATOM	1373	H	GLY	89	-8.510	4.426	28.615	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.065	6.686	30.219	1.00	0.00
ATOM	1375	2HA	GLY	89	-9.863	6.861	28.665	1.00	0.00
ATOM	1376	N	GLY	90	-7.516	6.603	27.298	1.00	0.00
ATOM	1377	CA	GLY	90	-6.306	7.080	26.658	1.00	0.00
ATOM	1378	C	GLY	90	-6.071	6.555	25.248	1.00	0.00
ATOM	1379	O	GLY	90	-4.971	6.091	24.946	1.00	0.00
ATOM	1380	H	GLY	90	-8.170	6.076	26.793	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.468	6.800	27.270	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.347	8.157	26.613	1.00	0.00
ATOM	1383	N	PRO	91	-7.059	6.649	24.336	1.00	0.00
ATOM	1384	CA	PRO	91	-6.893	6.211	22.953	1.00	0.00
ATOM	1388	C	PRO	91	-6.201	7.284	22.111	1.00	0.00
ATOM	1389	O	PRO	91	-6.358	7.341	20.893	1.00	0.00
ATOM	1385	CB	PRO	91	-8.325	5.994	22.453	1.00	0.00



ATOM	1386	CG	PRO	91	-9.238	6.603	23.466	1.00	0.00
ATOM	1387	CD	PRO	91	-8.391	7.218	24.557	1.00	0.00
ATOM	1390	HA	PRO	91	-6.337	5.287	22.889	1.00	0.00
ATOM	1391	LHB	PRO	91	-8.508	4.937	22.346	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.446	6.482	21.497	1.00	0.00
ATOM	1393	1HG	PRO	91	-9.888	5.843	23.873	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.829	7.362	22.987	1.00	0.00
ATOM	1395	1HD	PRO	91	-8.770	6.937	25.529	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.363	8.291	24.463	1.00	0.00
ATOM	1397	N	ASN	92	-5.453	8.143	22.792	1.00	0.00
ATOM	1398	CA	ASN	92	-4.738	9.245	22.160	1.00	0.00
ATOM	1403	C	ASN	92	-3.674	8.729	21.201	1.00	0.00
ATOM	1404	O	ASN	92	-3.236	7.588	21.318	1.00	0.00
ATOM	1399	CB	ASN	92	-4.108	10.146	23.230	1.00	0.00
ATOM	1400	CG	ASN	92	-5.146	10.835	24.109	1.00	0.00
ATOM	1401	OD1	ASN	92	-6.250	10.331	24.308	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.794	11.986	24.655	1.00	0.00
ATOM	1405	H	ASN	92	-5.393	8.037	23.762	1.00	0.00
ATOM	1406	HA	ASN	92	-5.457	9.823	21.598	1.00	0.00
ATOM	1407	LHB	ASN	92	-3.513	10.907	22.746	1.00	0.00
ATOM	1408	2HB	ASN	92	-3.469	9.549	23.865	1.00	0.00
ATOM	1409	1HD2	ASN	92	-3.889	12.334	24.473	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.446	12.445	25.223	1.00	0.00
ATOM	1411	N	TRP	93	-3.271	9.574	20.244	1.00	0.00
ATOM	1412	CA	TRP	93	-2.268	9.206	19.234	1.00	0.00
ATOM	1423	C	TRP	93	-1.010	8.604	19.853	1.00	0.00
ATOM	1424	O	TRP	93	-0.308	7.835	19.200	1.00	0.00
ATOM	1413	CB	TRP	93	-1.874	10.409	18.370	1.00	0.00
ATOM	1414	CG	TRP	93	-2.980	11.397	18.165	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.035	12.667	18.657	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.185	11.203	17.413	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.200	13.273	18.265	1.00	0.00
ATOM	1418	CE2	TRP	93	-4.922	12.396	17.500	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.715	10.138	16.675	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.157	12.556	16.882	1.00	0.00
ATOM	1421	CZ3	TRP	93	-5.944	10.301	16.061	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.651	11.501	16.168	1.00	0.00
ATOM	1425	H	TRP	93	-3.675	10.466	20.203	1.00	0.00
ATOM	1426	HA	TRP	93	-2.718	8.461	18.594	1.00	0.00
ATOM	1427	LHB	TRP	93	-1.558	10.053	17.398	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.052	10.925	18.842	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.267	13.117	19.270	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.470	14.193	18.494	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.181	9.204	16.581	1.00	0.00
ATOM	1432	HZ2	TRP	93	-6.717	13.476	16.954	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.371	9.494	15.485	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.606	11.584	15.673	1.00	0.00
ATOM	1435	N	GLY	94	-0.736	8.937	21.111	1.00	0.00
ATOM	1436	CA	GLY	94	0.425	8.392	21.777	1.00	0.00
ATOM	1437	C	GLY	94	0.317	6.885	21.909	1.00	0.00
ATOM	1438	O	GLY	94	1.229	6.148	21.548	1.00	0.00
ATOM	1439	H	GLY	94	-1.336	9.540	21.592	1.00	0.00
ATOM	1440	1HA	GLY	94	0.504	8.826	22.762	1.00	0.00
ATOM	1441	2HA	GLY	94	1.309	8.643	21.208	1.00	0.00
ATOM	1442	N	ARG	95	-0.825	6.433	22.414	1.00	0.00
ATOM	1443	CA	ARG	95	-1.081	5.011	22.584	1.00	0.00
ATOM	1451	C	ARG	95	-1.659	4.401	21.308	1.00	0.00
ATOM	1452	O	ARG	95	-1.619	3.186	21.127	1.00	0.00
ATOM	1444	CB	ARG	95	-2.031	4.777	23.757	1.00	0.00
ATOM	1445	CG	ARG	95	-1.323	4.665	25.098	1.00	0.00
ATOM	1446	CD	ARG	95	-1.934	3.569	25.952	1.00	0.00
ATOM	1447	NE	ARG	95	-1.131	3.275	27.139	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.627	2.071	27.418	1.00	0.00
ATOM	1449	NH1	ARG	95	-0.873	1.044	26.610	1.00	0.00
ATOM	1450	NH2	ARG	95	0.112	1.888	28.509	1.00	0.00
ATOM	1453	H	ARG	95	-1.520	7.075	22.668	1.00	0.00
ATOM	1454	HA	ARG	95	-0.138	4.532	22.792	1.00	0.00
ATOM	1455	LHB	ARG	95	-2.579	3.862	23.586	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.729	5.600	23.811	1.00	0.00
ATOM	1457	1HG	ARG	95	-1.410	5.607	25.620	1.00	0.00
ATOM	1458	2HG	ARG	95	-0.282	4.439	24.928	1.00	0.00
ATOM	1459	1HD	ARG	95	-2.015	2.671	25.354	1.00	0.00
ATOM	1460	2HD	ARG	95	-2.917	3.881	26.265	1.00	0.00



ATOM	1461	HE	ARG	95	-0.965	4.021	27.760	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.437	1.172	25.792	1.00	0.00
ATOM	1463	2HH1	ARG	95	-0.504	0.136	26.817	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.300	2.657	29.131	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.477	0.982	28.724	1.00	0.00
ATOM	1466	N	LEU	96	-2.188	5.255	20.431	1.00	0.00
ATOM	1467	CA	LEU	96	-2.776	4.819	19.161	1.00	0.00
ATOM	1472	C	LEU	96	-1.759	4.017	18.356	1.00	0.00
ATOM	1473	O	LEU	96	-2.107	3.079	17.626	1.00	0.00
ATOM	1468	CB	LEU	96	-3.245	6.038	18.354	1.00	0.00
ATOM	1469	CG	LEU	96	-4.438	5.816	17.412	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.965	5.730	15.971	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.221	4.568	17.791	1.00	0.00
ATOM	1474	H	LEU	96	-2.187	6.213	20.645	1.00	0.00
ATOM	1475	HA	LEU	96	-3.625	4.190	19.382	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.412	6.387	17.761	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.512	6.817	19.052	1.00	0.00
ATOM	1478	HG	LEU	96	-5.104	6.664	17.489	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.244	6.511	15.781	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.809	5.850	15.308	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.506	4.767	15.799	1.00	0.00
ATOM	1482	1HD2	LEU	96	-5.984	4.383	17.050	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.684	4.713	18.756	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.551	3.722	17.839	1.00	0.00
ATOM	1485	N	VAL	97	-0.494	4.374	18.530	1.00	0.00
ATOM	1486	CA	VAL	97	0.595	3.687	17.866	1.00	0.00
ATOM	1490	C	VAL	97	0.611	2.227	18.295	1.00	0.00
ATOM	1491	O	VAL	97	0.599	1.318	17.467	1.00	0.00
ATOM	1487	CB	VAL	97	1.949	4.310	18.228	1.00	0.00
ATOM	1488	CG1	VAL	97	3.039	3.671	17.402	1.00	0.00
ATOM	1489	CG2	VAL	97	1.930	5.818	18.031	1.00	0.00
ATOM	1492	H	VAL	97	-0.289	5.107	19.152	1.00	0.00
ATOM	1493	HA	VAL	97	0.459	3.756	16.789	1.00	0.00
ATOM	1494	HB	VAL	97	2.150	4.104	19.270	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.612	3.257	16.500	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.509	2.883	17.973	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.777	4.416	17.141	1.00	0.00
ATOM	1498	1HG2	VAL	97	2.281	6.056	17.038	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.574	6.285	18.763	1.00	0.00
ATOM	1500	3HG2	VAL	97	0.921	6.185	18.154	1.00	0.00
ATOM	1501	N	ALA	98	0.619	2.028	19.609	1.00	0.00
ATOM	1502	CA	ALA	98	0.628	0.699	20.199	1.00	0.00
ATOM	1504	C	ALA	98	-0.646	-0.061	19.868	1.00	0.00
ATOM	1505	O	ALA	98	-0.636	-1.284	19.809	1.00	0.00
ATOM	1503	CB	ALA	98	0.811	0.791	21.706	1.00	0.00
ATOM	1506	H	ALA	98	0.612	2.806	20.201	1.00	0.00
ATOM	1507	HA	ALA	98	1.472	0.160	19.793	1.00	0.00
ATOM	1508	1HB	ALA	98	-0.060	0.386	22.201	1.00	0.00
ATOM	1509	2HB	ALA	98	0.938	1.825	21.992	1.00	0.00
ATOM	1510	3HB	ALA	98	1.685	0.227	21.998	1.00	0.00
ATOM	1511	N	PHE	99	-1.736	0.667	19.645	1.00	0.00
ATOM	1512	CA	PHE	99	-3.013	0.053	19.307	1.00	0.00
ATOM	1520	C	PHE	99	-2.865	-0.806	18.057	1.00	0.00
ATOM	1521	O	PHE	99	-3.190	-1.994	18.060	1.00	0.00
ATOM	1513	CB	PHE	99	-4.071	1.132	19.046	1.00	0.00
ATOM	1514	CG	PHE	99	-4.953	1.481	20.216	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.962	0.627	20.635	1.00	0.00
ATOM	1516	CD2	PHE	99	-4.794	2.691	20.874	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.794	0.976	21.686	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.616	3.042	21.927	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.619	2.187	22.332	1.00	0.00
ATOM	1522	H	PHE	99	-1.679	1.644	19.701	1.00	0.00
ATOM	1523	HA	PHE	99	-3.318	-0.572	20.129	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.708	0.800	18.243	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.571	2.038	18.740	1.00	0.00
ATOM	1526	HD1	PHE	99	-6.098	-0.321	20.133	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.010	3.363	20.559	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.577	0.303	22.002	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.476	3.987	22.428	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.271	2.469	23.150	1.00	0.00
ATOM	1531	N	PHE	100	-2.371	-0.193	16.988	1.00	0.00
ATOM	1532	CA	PHE	100	-2.184	-0.906	15.731	1.00	0.00
ATOM	1540	C	PHE	100	-0.951	-1.800	15.785	1.00	0.00



ATOM	1541	O	PHE	100	-0.957	-2.913	15.252	1.00	0.00
ATOM	1533	CB	PHE	100	-2.066	0.079	14.570	1.00	0.00
ATOM	1534	CG	PHE	100	-3.362	0.312	13.856	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.371	1.046	14.455	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.573	-0.199	12.587	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.566	1.266	13.802	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.768	0.018	11.928	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.766	0.753	12.538	1.00	0.00
ATOM	1542	H	PHE	100	-2.131	0.762	17.048	1.00	0.00
ATOM	1543	HA	PHE	100	-3.054	-1.527	15.575	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.353	-0.303	13.854	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.717	1.029	14.946	1.00	0.00
ATOM	1546	HD1	PHE	100	-4.217	1.450	15.445	1.00	0.00
ATOM	1547	HD2	PHE	100	-2.792	-0.772	12.109	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.345	1.839	14.281	1.00	0.00
ATOM	1549	HE2	PHE	100	-4.921	-0.386	10.938	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.702	0.925	12.028	1.00	0.00
ATOM	1551	N	VAL	101	0.101	-1.308	16.431	1.00	0.00
ATOM	1552	CA	VAL	101	1.347	-2.056	16.559	1.00	0.00
ATOM	1556	C	VAL	101	1.113	-3.378	17.291	1.00	0.00
ATOM	1557	O	VAL	101	1.735	-4.390	16.967	1.00	0.00
ATOM	1553	CB	VAL	101	2.430	-1.217	17.290	1.00	0.00
ATOM	1554	CG1	VAL	101	3.482	-2.099	17.952	1.00	0.00
ATOM	1555	CG2	VAL	101	3.089	-0.249	16.320	1.00	0.00
ATOM	1558	H	VAL	101	0.038	-0.413	16.834	1.00	0.00
ATOM	1559	HA	VAL	101	1.705	-2.271	15.562	1.00	0.00
ATOM	1560	HB	VAL	101	1.943	-0.636	18.062	1.00	0.00
ATOM	1561	1HG1	VAL	101	4.468	-1.750	17.678	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.356	-3.119	17.620	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.368	-2.053	19.024	1.00	0.00
ATOM	1564	1HG2	VAL	101	4.006	0.124	16.751	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.421	0.576	16.125	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.308	-0.761	15.394	1.00	0.00
ATOM	1567	N	PHE	102	0.207	-3.360	18.267	1.00	0.00
ATOM	1568	CA	PHE	102	-0.120	-4.550	19.047	1.00	0.00
ATOM	1576	C	PHE	102	-0.482	-5.724	18.150	1.00	0.00
ATOM	1577	O	PHE	102	0.169	-6.769	18.179	1.00	0.00
ATOM	1569	CB	PHE	102	-1.291	-4.254	19.982	1.00	0.00
ATOM	1570	CG	PHE	102	-0.947	-4.339	21.436	1.00	0.00
ATOM	1571	CD1	PHE	102	0.132	-3.642	21.955	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.715	-5.111	22.285	1.00	0.00
ATOM	1573	CE1	PHE	102	0.437	-3.718	23.301	1.00	0.00
ATOM	1574	CE2	PHE	102	-1.417	-5.188	23.626	1.00	0.00
ATOM	1575	CZ	PHE	102	-0.342	-4.493	24.137	1.00	0.00
ATOM	1578	H	PHE	102	-0.265	-2.515	18.471	1.00	0.00
ATOM	1579	HA	PHE	102	0.745	-4.813	19.633	1.00	0.00
ATOM	1580	1HB	PHE	102	-2.084	-4.962	19.787	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.653	-3.256	19.788	1.00	0.00
ATOM	1582	HD1	PHE	102	-2.557	-5.658	21.887	1.00	0.00
ATOM	1583	HD2	PHE	102	0.739	-3.038	21.298	1.00	0.00
ATOM	1584	HE1	PHE	102	-2.027	-5.795	24.279	1.00	0.00
ATOM	1585	HE2	PHE	102	1.281	-3.171	23.696	1.00	0.00
ATOM	1586	HZ	PHE	102	-0.113	-4.555	25.190	1.00	0.00
ATOM	1587	N	GLY	103	-1.532	-5.550	17.362	1.00	0.00
ATOM	1588	CA	GLY	103	-1.972	-6.608	16.480	1.00	0.00
ATOM	1589	C	GLY	103	-1.021	-6.858	15.331	1.00	0.00
ATOM	1590	O	GLY	103	-0.863	-7.995	14.906	1.00	0.00
ATOM	1591	H	GLY	103	-2.016	-4.697	17.387	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.937	-6.355	16.084	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.064	-7.518	17.053	1.00	0.00
ATOM	1594	N	ALA	104	-0.386	-5.806	14.826	1.00	0.00
ATOM	1595	CA	ALA	104	0.554	-5.946	13.716	1.00	0.00
ATOM	1597	C	ALA	104	1.730	-6.826	14.120	1.00	0.00
ATOM	1598	O	ALA	104	2.115	-7.737	13.385	1.00	0.00
ATOM	1596	CB	ALA	104	1.045	-4.581	13.255	1.00	0.00
ATOM	1599	H	ALA	104	-0.551	-4.914	15.207	1.00	0.00
ATOM	1600	HA	ALA	104	0.031	-6.419	12.892	1.00	0.00
ATOM	1601	1HB	ALA	104	1.710	-4.703	12.412	1.00	0.00
ATOM	1602	2HB	ALA	104	1.572	-4.096	14.062	1.00	0.00
ATOM	1603	3HB	ALA	104	0.200	-3.974	12.961	1.00	0.00
ATOM	1604	N	ALA	105	2.283	-6.572	15.300	1.00	0.00
ATOM	1605	CA	ALA	105	3.397	-7.364	15.797	1.00	0.00
ATOM	1607	C	ALA	105	2.921	-8.780	16.107	1.00	0.00



ATOM	1608	O	ALA	105	3.614	-9.757	15.822	1.00	0.00
ATOM	1606	CB	ALA	105	4.009	-6.718	17.033	1.00	0.00
ATOM	1609	H	ALA	105	1.923	-5.841	15.859	1.00	0.00
ATOM	1610	HA	ALA	105	4.151	-7.407	15.024	1.00	0.00
ATOM	1611	1HB	ALA	105	5.007	-6.372	16.802	1.00	0.00
ATOM	1612	2HB	ALA	105	4.058	-7.443	17.833	1.00	0.00
ATOM	1613	3HB	ALA	105	3.401	-5.881	17.342	1.00	0.00
ATOM	1614	N	LEU	106	1.722	-8.871	16.677	1.00	0.00
ATOM	1615	CA	LEU	106	1.119	-10.154	17.024	1.00	0.00
ATOM	1620	C	LEU	106	0.931	-11.013	15.781	1.00	0.00
ATOM	1621	O	LEU	106	1.236	-12.204	15.773	1.00	0.00
ATOM	1616	CB	LEU	106	-0.234	-9.915	17.708	1.00	0.00
ATOM	1617	CG	LEU	106	-0.499	-10.739	18.968	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.961	-9.833	20.098	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.536	-11.818	18.691	1.00	0.00
ATOM	1622	H	LEU	106	1.219	-8.045	16.862	1.00	0.00
ATOM	1623	HA	LEU	106	1.783	-10.663	17.705	1.00	0.00
ATOM	1624	1HB	LEU	106	-1.019	-10.123	16.993	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.292	-8.870	17.976	1.00	0.00
ATOM	1626	HG	LEU	106	0.417	-11.221	19.276	1.00	0.00
ATOM	1627	1HD1	LEU	106	-2.030	-9.924	20.220	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.711	-8.809	19.864	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.469	-10.123	21.016	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.837	-11.771	17.655	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.398	-11.660	19.324	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.110	-12.789	18.899	1.00	0.00
ATOM	1633	N	CYS	107	0.428	-10.384	14.736	1.00	0.00
ATOM	1634	CA	CYS	107	0.181	-11.045	13.466	1.00	0.00
ATOM	1637	C	CYS	107	1.484	-11.474	12.806	1.00	0.00
ATOM	1638	O	CYS	107	1.571	-12.566	12.245	1.00	0.00
ATOM	1635	CB	CYS	107	-0.596	-10.101	12.549	1.00	0.00
ATOM	1636	SG	CYS	107	-2.302	-9.811	13.067	1.00	0.00
ATOM	1639	H	CYS	107	0.213	-9.432	14.822	1.00	0.00
ATOM	1640	HA	CYS	107	-0.413	-11.924	13.653	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.617	-10.505	11.552	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.096	-9.143	12.529	1.00	0.00
ATOM	1643	HG	CYS	107	-2.271	-8.981	14.102	1.00	0.00
ATOM	1644	N	ALA	108	2.492	-10.615	12.880	1.00	0.00
ATOM	1645	CA	ALA	108	3.790	-10.902	12.289	1.00	0.00
ATOM	1647	C	ALA	108	4.357	-12.215	12.816	1.00	0.00
ATOM	1648	O	ALA	108	4.697	-13.107	12.041	1.00	0.00
ATOM	1646	CB	ALA	108	4.759	-9.758	12.550	1.00	0.00
ATOM	1649	H	ALA	108	2.357	-9.759	13.345	1.00	0.00
ATOM	1650	HA	ALA	108	3.654	-10.988	11.221	1.00	0.00
ATOM	1651	1HB	ALA	108	4.917	-9.655	13.614	1.00	0.00
ATOM	1652	2HB	ALA	108	4.347	-8.841	12.158	1.00	0.00
ATOM	1653	3HB	ALA	108	5.702	-9.966	12.065	1.00	0.00
ATOM	1654	N	GLU	109	4.454	-12.336	14.133	1.00	0.00
ATOM	1655	CA	GLU	109	4.990	-13.547	14.740	1.00	0.00
ATOM	1661	C	GLU	109	4.036	-14.732	14.600	1.00	0.00
ATOM	1662	O	GLU	109	4.442	-15.880	14.770	1.00	0.00
ATOM	1656	CB	GLU	109	5.348	-13.310	16.200	1.00	0.00
ATOM	1657	CG	GLU	109	6.739	-12.730	16.358	1.00	0.00
ATOM	1658	CD	GLU	109	7.551	-13.419	17.433	1.00	0.00
ATOM	1659	OE1	GLU	109	7.419	-14.653	17.584	1.00	0.00
ATOM	1660	OE2	GLU	109	8.342	-12.734	18.108	1.00	0.00
ATOM	1663	H	GLU	109	4.165	-11.594	14.711	1.00	0.00
ATOM	1664	HA	GLU	109	5.900	-13.784	14.209	1.00	0.00
ATOM	1665	1HB	GLU	109	5.306	-14.247	16.733	1.00	0.00
ATOM	1666	2HB	GLU	109	4.637	-12.620	16.631	1.00	0.00
ATOM	1667	1HG	GLU	109	6.651	-11.686	16.603	1.00	0.00
ATOM	1668	2HG	GLU	109	7.263	-12.831	15.417	1.00	0.00
ATOM	1669	N	SER	110	2.779	-14.462	14.263	1.00	0.00
ATOM	1670	CA	SER	110	1.811	-15.532	14.086	1.00	0.00
ATOM	1673	C	SER	110	2.018	-16.197	12.726	1.00	0.00
ATOM	1674	O	SER	110	1.835	-17.406	12.578	1.00	0.00
ATOM	1671	CB	SER	110	0.385	-14.996	14.215	1.00	0.00
ATOM	1672	OG	SER	110	0.103	-14.623	15.553	1.00	0.00
ATOM	1675	H	SER	110	2.502	-13.530	14.119	1.00	0.00
ATOM	1676	HA	SER	110	1.984	-16.267	14.860	1.00	0.00
ATOM	1677	1HB	SER	110	-0.315	-15.762	13.912	1.00	0.00
ATOM	1678	2HB	SER	110	0.268	-14.131	13.579	1.00	0.00
ATOM	1679	HG	SER	110	0.563	-13.797	15.759	1.00	0.00



ATOM	1680	N	VAL	111	2.438	-15.402	11.743	1.00	0.00
ATOM	1681	CA	VAL	111	2.707	-15.917	10.404	1.00	0.00
ATOM	1685	C	VAL	111	4.028	-16.679	10.406	1.00	0.00
ATOM	1686	O	VAL	111	4.210	-17.646	9.668	1.00	0.00
ATOM	1682	CB	VAL	111	2.781	-14.781	9.353	1.00	0.00
ATOM	1683	CG1	VAL	111	2.986	-15.347	7.954	1.00	0.00
ATOM	1684	CG2	VAL	111	1.528	-13.923	9.395	1.00	0.00
ATOM	1687	H	VAL	111	2.590	-14.450	11.930	1.00	0.00
ATOM	1688	HA	VAL	111	1.908	-16.591	10.130	1.00	0.00
ATOM	1689	HB	VAL	111	3.630	-14.152	9.590	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.326	-16.370	8.025	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.726	-14.758	7.433	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.053	-15.313	7.412	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.586	-13.240	10.228	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.660	-14.558	9.509	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.444	-13.363	8.475	1.00	0.00
ATOM	1696	N	ASN	112	4.940	-16.227	11.261	1.00	0.00
ATOM	1697	CA	ASN	112	6.258	-16.842	11.395	1.00	0.00
ATOM	1702	C	ASN	112	6.184	-18.137	12.201	1.00	0.00
ATOM	1703	O	ASN	112	7.201	-18.788	12.441	1.00	0.00
ATOM	1698	CB	ASN	112	7.232	-15.873	12.074	1.00	0.00
ATOM	1699	CG	ASN	112	7.708	-14.767	11.149	1.00	0.00
ATOM	1700	OD1	ASN	112	8.375	-15.019	10.148	1.00	0.00
ATOM	1701	ND2	ASN	112	7.363	-13.531	11.484	1.00	0.00
ATOM	1704	H	ASN	112	4.718	-15.454	11.820	1.00	0.00
ATOM	1705	HA	ASN	112	6.623	-17.069	10.403	1.00	0.00
ATOM	1706	1HB	ASN	112	8.095	-16.425	12.418	1.00	0.00
ATOM	1707	2HB	ASN	112	6.742	-15.419	12.922	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.827	-13.405	12.295	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.648	-12.793	10.906	1.00	0.00
ATOM	1710	N	LYS	113	4.982	-18.502	12.628	1.00	0.00
ATOM	1711	CA	LYS	113	4.785	-19.713	13.409	1.00	0.00
ATOM	1717	C	LYS	113	3.615	-20.530	12.859	1.00	0.00
ATOM	1718	O	LYS	113	3.323	-20.481	11.665	1.00	0.00
ATOM	1712	CB	LYS	113	4.550	-19.356	14.877	1.00	0.00
ATOM	1713	CG	LYS	113	5.665	-19.814	15.803	1.00	0.00
ATOM	1714	CD	LYS	113	5.683	-19.010	17.093	1.00	0.00
ATOM	1715	CE	LYS	113	6.543	-17.762	16.961	1.00	0.00
ATOM	1716	NZ	LYS	113	7.986	-18.060	17.147	1.00	0.00
ATOM	1719	H	LYS	113	4.207	-17.942	12.410	1.00	0.00
ATOM	1720	HA	LYS	113	5.686	-20.303	13.333	1.00	0.00
ATOM	1721	1HB	LYS	113	3.628	-19.816	15.203	1.00	0.00
ATOM	1722	2HB	LYS	113	4.457	-18.283	14.964	1.00	0.00
ATOM	1723	1HG	LYS	113	6.612	-19.689	15.299	1.00	0.00
ATOM	1724	2HG	LYS	113	5.517	-20.856	16.043	1.00	0.00
ATOM	1725	1HD	LYS	113	6.081	-19.627	17.886	1.00	0.00
ATOM	1726	2HD	LYS	113	4.674	-18.715	17.337	1.00	0.00
ATOM	1727	1HE	LYS	113	6.232	-17.046	17.708	1.00	0.00
ATOM	1728	2HE	LYS	113	6.397	-17.340	15.977	1.00	0.00
ATOM	1729	1HZ	LYS	113	8.533	-17.172	17.195	1.00	0.00
ATOM	1730	2HZ	LYS	113	8.342	-18.632	16.350	1.00	0.00
ATOM	1731	3HZ	LYS	113	8.135	-18.592	18.032	1.00	0.00
ATOM	1732	N	GLU	114	2.954	-21.287	13.726	1.00	0.00
ATOM	1733	CA	GLU	114	1.828	-22.120	13.312	1.00	0.00
ATOM	1739	C	GLU	114	0.503	-21.562	13.830	1.00	0.00
ATOM	1740	O	GLU	114	-0.291	-22.282	14.437	1.00	0.00
ATOM	1734	CB	GLU	114	2.014	-23.554	13.815	1.00	0.00
ATOM	1735	CG	GLU	114	3.419	-24.103	13.616	1.00	0.00
ATOM	1736	CD	GLU	114	3.935	-24.821	14.844	1.00	0.00
ATOM	1737	OE1	GLU	114	3.679	-26.037	14.981	1.00	0.00
ATOM	1738	OE2	GLU	114	4.602	-24.178	15.679	1.00	0.00
ATOM	1741	H	GLU	114	3.231	-21.294	14.667	1.00	0.00
ATOM	1742	HA	GLU	114	1.803	-22.128	12.234	1.00	0.00
ATOM	1743	1HB	GLU	114	1.323	-24.197	13.290	1.00	0.00
ATOM	1744	2HB	GLU	114	1.787	-23.584	14.870	1.00	0.00
ATOM	1745	1HG	GLU	114	4.084	-23.283	13.391	1.00	0.00
ATOM	1746	2HG	GLU	114	3.409	-24.796	12.789	1.00	0.00
ATOM	1747	N	MET	115	0.262	-20.282	13.589	1.00	0.00
ATOM	1748	CA	MET	115	-0.974	-19.650	14.033	1.00	0.00
ATOM	1753	C	MET	115	-1.409	-18.574	13.048	1.00	0.00
ATOM	1754	O	MET	115	-1.849	-17.492	13.438	1.00	0.00
ATOM	1749	CB	MET	115	-0.824	-19.060	15.444	1.00	0.00
ATOM	1750	CG	MET	115	0.531	-18.425	15.720	1.00	0.00



ATOM	1751	SD	MET	115	1.715	-19.584	16.438	1.00	0.00
ATOM	1752	CE	MET	115	0.855	-20.091	17.923	1.00	0.00
ATOM	1755	H	MET	115	0.925	-19.751	13.097	1.00	0.00
ATOM	1756	HA	MET	115	-1.737	-20.416	14.058	1.00	0.00
ATOM	1757	1HB	MET	115	-0.978	-19.849	16.167	1.00	0.00
ATOM	1758	2HB	MET	115	-1.583	-18.306	15.587	1.00	0.00
ATOM	1759	1HG	MET	115	0.392	-17.601	16.405	1.00	0.00
ATOM	1760	2HG	MET	115	0.933	-18.052	14.790	1.00	0.00
ATOM	1761	1HE	MET	115	1.571	-20.432	18.655	1.00	0.00
ATOM	1762	2HE	MET	115	0.171	-20.893	17.688	1.00	0.00
ATOM	1763	3HE	MET	115	0.302	-19.253	18.324	1.00	0.00
ATOM	1764	N	GLU	116	-1.292	-18.889	11.763	1.00	0.00
ATOM	1765	CA	GLU	116	-1.675	-17.964	10.697	1.00	0.00
ATOM	1771	C	GLU	116	-3.167	-17.587	10.757	1.00	0.00
ATOM	1772	O	GLU	116	-3.499	-16.410	10.620	1.00	0.00
ATOM	1766	CB	GLU	116	-1.339	-18.536	9.314	1.00	0.00
ATOM	1767	CG	GLU	116	-0.237	-19.580	9.326	1.00	0.00
ATOM	1768	CD	GLU	116	-0.781	-20.978	9.504	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.572	-21.421	8.647	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.431	-21.624	10.514	1.00	0.00
ATOM	1773	H	GLU	116	-0.940	-19.777	11.522	1.00	0.00
ATOM	1774	HA	GLU	116	-1.099	-17.062	10.840	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.029	-17.725	8.671	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.227	-18.989	8.899	1.00	0.00
ATOM	1777	1HG	GLU	116	0.441	-19.363	10.138	1.00	0.00
ATOM	1778	2HG	GLU	116	0.298	-19.533	8.388	1.00	0.00
ATOM	1779	N	PRO	117	-4.102	-18.555	10.942	1.00	0.00
ATOM	1780	CA	PRO	117	-5.546	-18.256	10.995	1.00	0.00
ATOM	1784	C	PRO	117	-5.918	-17.259	12.096	1.00	0.00
ATOM	1785	O	PRO	117	-6.998	-16.667	12.071	1.00	0.00
ATOM	1781	CB	PRO	117	-6.190	-19.617	11.277	1.00	0.00
ATOM	1782	CG	PRO	117	-5.194	-20.616	10.809	1.00	0.00
ATOM	1783	CD	PRO	117	-3.853	-20.007	11.084	1.00	0.00
ATOM	1786	HA	PRO	117	-5.902	-17.882	10.046	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.118	-19.699	10.731	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.380	-19.714	12.336	1.00	0.00
ATOM	1789	1HG	PRO	117	-5.318	-20.789	9.750	1.00	0.00
ATOM	1790	2HG	PRO	117	-5.310	-21.538	11.359	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.128	-20.344	10.358	1.00	0.00
ATOM	1792	2HD	PRO	117	-3.526	-20.247	12.086	1.00	0.00
ATOM	1793	N	LEU	118	-5.020	-17.064	13.054	1.00	0.00
ATOM	1794	CA	LEU	118	-5.263	-16.134	14.147	1.00	0.00
ATOM	1799	C	LEU	118	-4.939	-14.706	13.719	1.00	0.00
ATOM	1800	O	LEU	118	-5.447	-13.752	14.298	1.00	0.00
ATOM	1795	CB	LEU	118	-4.430	-16.521	15.373	1.00	0.00
ATOM	1796	CG	LEU	118	-5.195	-17.273	16.461	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.009	-18.774	16.301	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.738	-16.815	17.837	1.00	0.00
ATOM	1801	H	LEU	118	-4.172	-17.552	13.019	1.00	0.00
ATOM	1802	HA	LEU	118	-6.310	-16.190	14.402	1.00	0.00
ATOM	1803	1HB	LEU	118	-4.027	-15.620	15.811	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.609	-17.141	15.046	1.00	0.00
ATOM	1805	HG	LEU	118	-6.250	-17.056	16.367	1.00	0.00
ATOM	1806	1HD1	LEU	118	-4.829	-19.005	15.261	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.899	-19.286	16.635	1.00	0.00
ATOM	1808	3HD1	LEU	118	-4.164	-19.097	16.892	1.00	0.00
ATOM	1809	1HD2	LEU	118	-3.895	-16.149	17.733	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.451	-17.673	18.425	1.00	0.00
ATOM	1811	3HD2	LEU	118	-5.548	-16.295	18.330	1.00	0.00
ATOM	1812	N	VAL	119	-4.099	-14.577	12.696	1.00	0.00
ATOM	1813	CA	VAL	119	-3.697	-13.272	12.170	1.00	0.00
ATOM	1817	C	VAL	119	-4.912	-12.441	11.764	1.00	0.00
ATOM	1818	O	VAL	119	-5.082	-11.311	12.224	1.00	0.00
ATOM	1814	CB	VAL	119	-2.758	-13.431	10.953	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.558	-12.106	10.229	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.421	-14.012	11.385	1.00	0.00
ATOM	1819	H	VAL	119	-3.737	-15.388	12.276	1.00	0.00
ATOM	1820	HA	VAL	119	-3.160	-12.748	12.949	1.00	0.00
ATOM	1821	HB	VAL	119	-3.215	-14.122	10.262	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.613	-12.120	9.706	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.559	-11.298	10.946	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.359	-11.959	9.519	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.576	-14.696	12.206	1.00	0.00



ATOM	1826	2HG2	VAL	119	-0.765	-13.213	11.699	1.00	0.00
ATOM	1827	3HG2	VAL	119	-0.975	-14.540	10.556	1.00	0.00
ATOM	1828	N	GLY	120	-5.754	-13.005	10.905	1.00	0.00
ATOM	1829	CA	GLY	120	-6.937	-12.294	10.462	1.00	0.00
ATOM	1830	C	GLY	120	-7.868	-11.973	11.611	1.00	0.00
ATOM	1831	O	GLY	120	-8.544	-10.946	11.599	1.00	0.00
ATOM	1832	H	GLY	120	-5.571	-13.908	10.572	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.462	-12.890	9.739	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.633	-11.369	9.994	1.00	0.00
ATOM	1835	N	GLN	121	-7.883	-12.839	12.621	1.00	0.00
ATOM	1836	CA	GLN	121	-8.719	-12.614	13.787	1.00	0.00
ATOM	1842	C	GLN	121	-8.208	-11.405	14.553	1.00	0.00
ATOM	1843	O	GLN	121	-8.964	-10.497	14.846	1.00	0.00
ATOM	1837	CB	GLN	121	-8.757	-13.840	14.697	1.00	0.00
ATOM	1838	CG	GLN	121	-9.878	-14.811	14.366	1.00	0.00
ATOM	1839	CD	GLN	121	-11.080	-14.639	15.274	1.00	0.00
ATOM	1840	OE1	GLN	121	-11.051	-15.018	16.445	1.00	0.00
ATOM	1841	NE2	GLN	121	-12.140	-14.048	14.750	1.00	0.00
ATOM	1844	H	GLN	121	-7.306	-13.630	12.586	1.00	0.00
ATOM	1845	HA	GLN	121	-9.720	-12.402	13.440	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.889	-13.510	15.716	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.820	-14.360	14.619	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.506	-15.820	14.469	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.190	-14.645	13.345	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.092	-13.749	13.805	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.929	-13.926	15.315	1.00	0.00
ATOM	1852	N	VAL	122	-6.918	-11.376	14.855	1.00	0.00
ATOM	1853	CA	VAL	122	-6.340	-10.239	15.569	1.00	0.00
ATOM	1857	C	VAL	122	-6.586	-8.957	14.782	1.00	0.00
ATOM	1858	O	VAL	122	-6.809	-7.889	15.357	1.00	0.00
ATOM	1854	CB	VAL	122	-4.820	-10.416	15.802	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.272	-9.297	16.675	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.520	-11.768	16.429	1.00	0.00
ATOM	1859	H	VAL	122	-6.338	-12.122	14.580	1.00	0.00
ATOM	1860	HA	VAL	122	-6.839	-10.155	16.531	1.00	0.00
ATOM	1861	HB	VAL	122	-4.321	-10.372	14.843	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.326	-9.591	17.714	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.856	-8.403	16.523	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.243	-9.105	16.410	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.148	-11.910	17.296	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.483	-11.804	16.726	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.716	-12.549	15.710	1.00	0.00
ATOM	1868	N	GLN	123	-6.578	-9.085	13.463	1.00	0.00
ATOM	1869	CA	GLN	123	-6.826	-7.959	12.581	1.00	0.00
ATOM	1875	C	GLN	123	-8.257	-7.458	12.752	1.00	0.00
ATOM	1876	O	GLN	123	-8.492	-6.254	12.883	1.00	0.00
ATOM	1870	CB	GLN	123	-6.574	-8.356	11.124	1.00	0.00
ATOM	1871	CG	GLN	123	-6.060	-7.213	10.266	1.00	0.00
ATOM	1872	CD	GLN	123	-5.856	-7.617	8.819	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.611	-8.417	8.271	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.831	-7.066	8.191	1.00	0.00
ATOM	1877	H	GLN	123	-6.417	-9.971	13.070	1.00	0.00
ATOM	1878	HA	GLN	123	-6.147	-7.166	12.855	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.499	-8.714	10.695	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.847	-9.156	11.099	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.118	-6.874	10.668	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.776	-6.406	10.300	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.269	-6.436	8.688	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.677	-7.311	7.255	1.00	0.00
ATOM	1885	N	GLU	124	-9.213	-8.382	12.759	1.00	0.00
ATOM	1886	CA	GLU	124	-10.612	-8.019	12.919	1.00	0.00
ATOM	1892	C	GLU	124	-10.911	-7.611	14.361	1.00	0.00
ATOM	1893	O	GLU	124	-11.708	-6.703	14.585	1.00	0.00
ATOM	1887	CB	GLU	124	-11.537	-9.155	12.475	1.00	0.00
ATOM	1888	CG	GLU	124	-11.308	-10.450	13.220	1.00	0.00
ATOM	1889	CD	GLU	124	-12.325	-11.514	12.873	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.535	-11.259	13.032	1.00	0.00
ATOM	1891	OE2	GLU	124	-11.920	-12.611	12.435	1.00	0.00
ATOM	1894	H	GLU	124	-8.968	-9.330	12.656	1.00	0.00
ATOM	1895	HA	GLU	124	-10.793	-7.162	12.285	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.384	-9.337	11.422	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.561	-8.850	12.633	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.352	-10.250	14.281	1.00	0.00



ATOM	1899	2HG	GLU	124	-10.322	-10.816	12.970	1.00	0.00
ATOM	1900	N	TRP	125	-10.255	-8.254	15.341	1.00	0.00
ATOM	1901	CA	TRP	125	-10.467	-7.891	16.745	1.00	0.00
ATOM	1912	C	TRP	125	-10.104	-6.425	16.917	1.00	0.00
ATOM	1913	O	TRP	125	-10.768	-5.667	17.626	1.00	0.00
ATOM	1902	CB	TRP	125	-9.572	-8.691	17.721	1.00	0.00
ATOM	1903	CG	TRP	125	-9.646	-10.195	17.677	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.647	-10.995	17.197	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.630	-11.081	18.165	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.299	-12.322	17.351	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.064	-12.394	17.931	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.386	-10.881	18.769	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.296	-13.506	18.275	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.628	-11.982	19.114	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.081	-13.280	18.862	1.00	0.00
ATOM	1914	H	TRP	125	-9.607	-8.965	15.115	1.00	0.00
ATOM	1915	HA	TRP	125	-11.508	-8.031	16.986	1.00	0.00
ATOM	1916	LHB	TRP	125	-9.807	-8.385	18.726	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.546	-8.428	17.523	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.563	-10.634	16.765	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.846	-13.093	17.086	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.024	-9.885	18.987	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.631	-14.514	18.086	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.663	-11.845	19.579	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.455	-14.113	19.157	1.00	0.00
ATOM	1924	N	MET	126	-9.020	-6.053	16.254	1.00	0.00
ATOM	1925	CA	MET	126	-8.503	-4.694	16.311	1.00	0.00
ATOM	1930	C	MET	126	-9.381	-3.721	15.537	1.00	0.00
ATOM	1931	O	MET	126	-9.792	-2.688	16.069	1.00	0.00
ATOM	1926	CB	MET	126	-7.076	-4.656	15.765	1.00	0.00
ATOM	1927	CG	MET	126	-6.316	-3.391	16.125	1.00	0.00
ATOM	1928	SD	MET	126	-5.277	-2.805	14.773	1.00	0.00
ATOM	1929	CE	MET	126	-4.109	-4.155	14.635	1.00	0.00
ATOM	1932	H	MET	126	-8.544	-6.730	15.710	1.00	0.00
ATOM	1933	HA	MET	126	-8.488	-4.391	17.344	1.00	0.00
ATOM	1934	LHB	MET	126	-7.113	-4.734	14.688	1.00	0.00
ATOM	1935	2HB	MET	126	-6.529	-5.501	16.158	1.00	0.00
ATOM	1936	LHG	MET	126	-5.690	-3.595	16.981	1.00	0.00
ATOM	1937	2HG	MET	126	-7.027	-2.618	16.375	1.00	0.00
ATOM	1938	LHE	MET	126	-3.814	-4.270	13.603	1.00	0.00
ATOM	1939	2HE	MET	126	-4.572	-5.067	14.981	1.00	0.00
ATOM	1940	3HE	MET	126	-3.239	-3.940	15.237	1.00	0.00
ATOM	1941	N	VAL	127	-9.656	-4.039	14.279	1.00	0.00
ATOM	1942	CA	VAL	127	-10.466	-3.166	13.442	1.00	0.00
ATOM	1946	C	VAL	127	-11.881	-2.996	14.001	1.00	0.00
ATOM	1947	O	VAL	127	-12.470	-1.928	13.859	1.00	0.00
ATOM	1943	CB	VAL	127	-10.510	-3.642	11.967	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.449	-4.823	11.783	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.905	-2.496	11.046	1.00	0.00
ATOM	1948	H	VAL	127	-9.290	-4.870	13.902	1.00	0.00
ATOM	1949	HA	VAL	127	-9.991	-2.195	13.455	1.00	0.00
ATOM	1950	HB	VAL	127	-9.514	-3.959	11.689	1.00	0.00
ATOM	1951	LHG1	VAL	127	-11.901	-5.076	12.730	1.00	0.00
ATOM	1952	2HG1	VAL	127	-10.891	-5.671	11.411	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.221	-4.562	11.074	1.00	0.00
ATOM	1954	LHG2	VAL	127	-10.028	-2.126	10.536	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.346	-1.700	11.627	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.621	-2.851	10.319	1.00	0.00
ATOM	1957	N	GLU	128	-12.421	-4.024	14.659	1.00	0.00
ATOM	1958	CA	GLU	128	-13.759	-3.913	15.231	1.00	0.00
ATOM	1964	C	GLU	128	-13.751	-2.923	16.382	1.00	0.00
ATOM	1965	O	GLU	128	-14.536	-1.976	16.411	1.00	0.00
ATOM	1959	CB	GLU	128	-14.269	-5.273	15.715	1.00	0.00
ATOM	1960	CG	GLU	128	-15.780	-5.422	15.616	1.00	0.00
ATOM	1961	CD	GLU	128	-16.482	-5.185	16.939	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.610	-4.012	17.353	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.922	-6.171	17.565	1.00	0.00
ATOM	1966	H	GLU	128	-11.910	-4.863	14.775	1.00	0.00
ATOM	1967	HA	GLU	128	-14.415	-3.541	14.462	1.00	0.00
ATOM	1968	LHB	GLU	128	-13.984	-5.404	16.749	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.810	-6.051	15.123	1.00	0.00
ATOM	1970	LHG	GLU	128	-16.009	-6.423	15.277	1.00	0.00
ATOM	1971	2HG	GLU	128	-16.152	-4.707	14.898	1.00	0.00



ATOM	1972	N	TYR	129	-12.841	-3.139	17.318	1.00	0.00
ATOM	1973	CA	TYR	129	-12.703	-2.265	18.474	1.00	0.00
ATOM	1982	C	TYR	129	-12.464	-0.824	18.038	1.00	0.00
ATOM	1983	O	TYR	129	-12.905	0.129	18.687	1.00	0.00
ATOM	1974	CB	TYR	129	-11.533	-2.734	19.337	1.00	0.00
ATOM	1975	CG	TYR	129	-11.652	-2.321	20.783	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.330	-1.030	21.180	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.095	-3.213	21.749	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.447	-0.640	22.498	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.211	-2.829	23.071	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.888	-1.541	23.439	1.00	0.00
ATOM	1981	OH	TYR	129	-12.011	-1.148	24.747	1.00	0.00
ATOM	1984	H	TYR	129	-12.234	-3.907	17.226	1.00	0.00
ATOM	1985	HA	TYR	129	-13.614	-2.315	19.050	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.616	-2.315	18.945	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.476	-3.807	19.299	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.982	-0.321	20.439	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.347	-4.220	21.459	1.00	0.00
ATOM	1990	HE1	TYR	129	-11.191	0.372	22.784	1.00	0.00
ATOM	1991	HE2	TYR	129	-12.557	-3.534	23.810	1.00	0.00
ATOM	1992	HH	TYR	129	-12.433	-1.854	25.258	1.00	0.00
ATOM	1993	N	LEU	130	-11.748	-0.676	16.943	1.00	0.00
ATOM	1994	CA	LEU	130	-11.422	0.638	16.422	1.00	0.00
ATOM	1999	C	LEU	130	-12.604	1.293	15.710	1.00	0.00
ATOM	2000	O	LEU	130	-12.963	2.424	16.022	1.00	0.00
ATOM	1995	CB	LEU	130	-10.232	0.551	15.479	1.00	0.00
ATOM	1996	CG	LEU	130	-8.928	1.122	16.034	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.858	0.045	16.101	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.463	2.294	15.185	1.00	0.00
ATOM	2001	H	LEU	130	-11.418	-1.479	16.476	1.00	0.00
ATOM	2002	HA	LEU	130	-11.144	1.259	17.263	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.482	1.092	14.582	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.071	-0.489	15.228	1.00	0.00
ATOM	2005	HG	LEU	130	-9.100	1.483	17.038	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.308	0.026	15.172	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.325	-0.915	16.262	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.181	0.257	16.916	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.979	1.923	14.294	1.00	0.00
ATOM	2010	2HD2	LEU	130	-7.765	2.895	15.750	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.315	2.898	14.907	1.00	0.00
ATOM	2012	N	GLU	131	-13.195	0.597	14.749	1.00	0.00
ATOM	2013	CA	GLU	131	-14.319	1.144	13.993	1.00	0.00
ATOM	2019	C	GLU	131	-15.523	1.425	14.889	1.00	0.00
ATOM	2020	O	GLU	131	-16.297	2.346	14.626	1.00	0.00
ATOM	2014	CB	GLU	131	-14.718	0.194	12.860	1.00	0.00
ATOM	2015	CG	GLU	131	-13.687	0.116	11.743	1.00	0.00
ATOM	2016	CD	GLU	131	-14.307	0.022	10.361	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.421	-0.528	10.236	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.674	0.497	9.394	1.00	0.00
ATOM	2021	H	GLU	131	-12.862	-0.304	14.529	1.00	0.00
ATOM	2022	HA	GLU	131	-13.993	2.077	13.561	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.653	0.529	12.434	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.853	-0.797	13.267	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.069	-0.756	11.904	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.071	1.001	11.781	1.00	0.00
ATOM	2027	N	THR	132	-15.689	0.624	15.927	1.00	0.00
ATOM	2028	CA	THR	132	-16.816	0.783	16.834	1.00	0.00
ATOM	2032	C	THR	132	-16.549	1.785	17.966	1.00	0.00
ATOM	2033	O	THR	132	-17.428	2.576	18.307	1.00	0.00
ATOM	2029	CB	THR	132	-17.218	-0.574	17.446	1.00	0.00
ATOM	2030	OG1	THR	132	-17.309	-1.564	16.412	1.00	0.00
ATOM	2031	CG2	THR	132	-18.552	-0.473	18.172	1.00	0.00
ATOM	2034	H	THR	132	-15.053	-0.109	16.076	1.00	0.00
ATOM	2035	HA	THR	132	-17.653	1.140	16.252	1.00	0.00
ATOM	2036	HB	THR	132	-16.457	-0.870	18.154	1.00	0.00
ATOM	2037	HG1	THR	132	-16.866	-2.380	16.703	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.851	-1.452	18.514	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.301	-0.082	17.498	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.450	0.186	19.020	1.00	0.00
ATOM	2041	N	ARG	133	-15.370	1.734	18.586	1.00	0.00
ATOM	2042	CA	ARG	133	-15.089	2.631	19.709	1.00	0.00
ATOM	2050	C	ARG	133	-13.982	3.651	19.434	1.00	0.00
ATOM	2051	O	ARG	133	-14.129	4.819	19.788	1.00	0.00



ATOM	2043	CB	ARG	133	-14.736	1.820	20.967	1.00	0.00
ATOM	2044	CG	ARG	133	-15.317	0.409	20.992	1.00	0.00
ATOM	2045	CD	ARG	133	-15.908	0.074	22.355	1.00	0.00
ATOM	2046	NE	ARG	133	-15.796	-1.352	22.676	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.338	-1.820	23.843	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.951	-0.983	24.796	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.267	-3.125	24.063	1.00	0.00
ATOM	2052	H	ARG	133	-14.702	1.069	18.311	1.00	0.00
ATOM	2053	HA	ARG	133	-15.994	3.182	19.907	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.104	2.351	21.833	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.662	1.741	21.037	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.532	-0.298	20.765	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.096	0.338	20.246	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.953	0.353	22.356	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.385	0.644	23.108	1.00	0.00
ATOM	2060	HE	ARG	133	-16.075	-1.995	21.980	1.00	0.00
ATOM	2061	1HH1	ARG	133	-15.005	0.005	24.656	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.575	-1.346	25.661	1.00	0.00
ATOM	2063	1HH2	ARG	133	-15.564	-3.784	23.355	1.00	0.00
ATOM	2064	2HH2	ARG	133	-14.903	-3.468	24.936	1.00	0.00
ATOM	2065	N	LEU	134	-12.873	3.232	18.836	1.00	0.00
ATOM	2066	CA	LEU	134	-11.769	4.163	18.579	1.00	0.00
ATOM	2071	C	LEU	134	-12.205	5.319	17.685	1.00	0.00
ATOM	2072	O	LEU	134	-11.844	6.471	17.928	1.00	0.00
ATOM	2067	CB	LEU	134	-10.578	3.437	17.958	1.00	0.00
ATOM	2068	CG	LEU	134	-9.342	3.311	18.853	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.649	4.657	19.006	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.718	2.743	20.213	1.00	0.00
ATOM	2073	H	LEU	134	-12.783	2.286	18.578	1.00	0.00
ATOM	2074	HA	LEU	134	-11.463	4.569	19.533	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.291	3.962	17.059	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.896	2.442	17.686	1.00	0.00
ATOM	2077	HG	LEU	134	-8.645	2.629	18.388	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.875	4.749	18.259	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.208	4.727	19.991	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.369	5.452	18.877	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.592	3.254	20.588	1.00	0.00
ATOM	2082	2HD2	LEU	134	-8.897	2.883	20.901	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.932	1.689	20.116	1.00	0.00
ATOM	2084	N	ALA	135	-12.982	5.005	16.651	1.00	0.00
ATOM	2085	CA	ALA	135	-13.475	6.006	15.719	1.00	0.00
ATOM	2087	C	ALA	135	-14.207	7.135	16.442	1.00	0.00
ATOM	2088	O	ALA	135	-14.176	8.279	15.991	1.00	0.00
ATOM	2086	CB	ALA	135	-14.387	5.361	14.687	1.00	0.00
ATOM	2089	H	ALA	135	-13.226	4.064	16.508	1.00	0.00
ATOM	2090	HA	ALA	135	-12.624	6.422	15.200	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.719	4.399	15.050	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.845	5.229	13.762	1.00	0.00
ATOM	2093	3HB	ALA	135	-15.243	5.996	14.515	1.00	0.00
ATOM	2094	N	ASP	136	-14.848	6.821	17.569	1.00	0.00
ATOM	2095	CA	ASP	136	-15.563	7.834	18.341	1.00	0.00
ATOM	2100	C	ASP	136	-14.578	8.833	18.927	1.00	0.00
ATOM	2101	O	ASP	136	-14.713	10.039	18.704	1.00	0.00
ATOM	2096	CB	ASP	136	-16.415	7.175	19.438	1.00	0.00
ATOM	2097	CG	ASP	136	-16.483	7.984	20.723	1.00	0.00
ATOM	2098	OD1	ASP	136	-16.971	9.136	20.689	1.00	0.00
ATOM	2099	OD2	ASP	136	-16.053	7.464	21.777	1.00	0.00
ATOM	2102	H	ASP	136	-14.830	5.890	17.897	1.00	0.00
ATOM	2103	HA	ASP	136	-16.208	8.369	17.661	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.997	6.206	19.670	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.421	7.043	19.070	1.00	0.00
ATOM	2106	N	TRP	137	-13.571	8.340	19.642	1.00	0.00
ATOM	2107	CA	TRP	137	-12.564	9.214	20.211	1.00	0.00
ATOM	2118	C	TRP	137	-11.883	9.994	19.095	1.00	0.00
ATOM	2119	O	TRP	137	-11.705	11.202	19.189	1.00	0.00
ATOM	2108	CB	TRP	137	-11.527	8.395	20.994	1.00	0.00
ATOM	2109	CG	TRP	137	-10.384	9.220	21.514	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.258	9.742	22.764	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.209	9.621	20.795	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.088	10.453	22.866	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.429	10.393	21.669	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.745	9.405	19.494	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.215	10.949	21.285	1.00	0.00



ATOM	2116	CZ3	TRP	137	-7.541	9.955	19.115	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.787	10.720	20.007	1.00	0.00
ATOM	2120	H	TRP	137	-13.492	7.367	19.775	1.00	0.00
ATOM	2121	HA	TRP	137	-13.052	9.911	20.875	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.123	7.629	20.347	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.012	7.928	21.838	1.00	0.00
ATOM	2124	HD1	TRP	137	-10.981	9.606	23.549	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.776	10.925	23.665	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.315	8.815	18.788	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.618	11.538	21.960	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.169	9.797	18.113	1.00	0.00
ATOM	2129	HM2	TRP	137	-5.849	11.133	19.668	1.00	0.00
ATOM	2130	N	ILE	138	-11.502	9.282	18.042	1.00	0.00
ATOM	2131	CA	ILE	138	-10.822	9.884	16.904	1.00	0.00
ATOM	2136	C	ILE	138	-11.643	11.018	16.280	1.00	0.00
ATOM	2137	O	ILE	138	-11.112	12.090	16.005	1.00	0.00
ATOM	2132	CB	ILE	138	-10.487	8.810	15.835	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.190	8.086	16.200	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.373	9.420	14.445	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.227	6.598	15.925	1.00	0.00
ATOM	2138	H	ILE	138	-11.674	8.312	18.039	1.00	0.00
ATOM	2139	HA	ILE	138	-9.889	10.298	17.265	1.00	0.00
ATOM	2140	HB	ILE	138	-11.293	8.092	15.818	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.990	8.224	17.253	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.376	8.506	15.627	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.920	10.398	14.516	1.00	0.00
ATOM	2144	2HG2	ILE	138	-11.357	9.510	14.011	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.762	8.784	13.823	1.00	0.00
ATOM	2146	1HD1	ILE	138	-9.998	6.140	16.526	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.271	6.161	16.171	1.00	0.00
ATOM	2148	3HD1	ILE	138	-9.440	6.432	14.878	1.00	0.00
ATOM	2149	N	HIS	139	-12.930	10.780	16.055	1.00	0.00
ATOM	2150	CA	HIS	139	-13.798	11.790	15.446	1.00	0.00
ATOM	2157	C	HIS	139	-14.010	12.986	16.366	1.00	0.00
ATOM	2158	O	HIS	139	-14.230	14.102	15.901	1.00	0.00
ATOM	2151	CB	HIS	139	-15.152	11.180	15.078	1.00	0.00
ATOM	2152	CG	HIS	139	-15.112	10.310	13.860	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.968	9.247	13.666	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.304	10.343	12.772	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.685	8.661	12.516	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.682	9.307	11.957	1.00	0.00
ATOM	2159	H	HIS	139	-13.307	9.900	16.296	1.00	0.00
ATOM	2160	HA	HIS	139	-13.317	12.134	14.542	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.859	11.977	14.895	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.504	10.578	15.902	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.680	8.967	14.279	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.510	11.051	12.584	1.00	0.00
ATOM	2165	HE1	HIS	139	-16.185	7.796	12.108	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.325	9.126	11.050	1.00	0.00
ATOM	2167	N	SER	140	-13.954	12.749	17.664	1.00	0.00
ATOM	2168	CA	SER	140	-14.157	13.807	18.642	1.00	0.00
ATOM	2171	C	SER	140	-12.831	14.414	19.090	1.00	0.00
ATOM	2172	O	SER	140	-12.804	15.348	19.894	1.00	0.00
ATOM	2169	CB	SER	140	-14.927	13.254	19.840	1.00	0.00
ATOM	2170	OG	SER	140	-15.948	12.361	19.416	1.00	0.00
ATOM	2173	H	SER	140	-13.780	11.838	17.976	1.00	0.00
ATOM	2174	HA	SER	140	-14.749	14.579	18.172	1.00	0.00
ATOM	2175	1HB	SER	140	-15.380	14.070	20.383	1.00	0.00
ATOM	2176	2HB	SER	140	-14.246	12.723	20.490	1.00	0.00
ATOM	2177	HG	SER	140	-15.586	11.463	19.355	1.00	0.00
ATOM	2178	N	SER	141	-11.733	13.880	18.576	1.00	0.00
ATOM	2179	CA	SER	141	-10.416	14.377	18.938	1.00	0.00
ATOM	2182	C	SER	141	-9.606	14.740	17.701	1.00	0.00
ATOM	2183	O	SER	141	-8.450	14.352	17.563	1.00	0.00
ATOM	2180	CB	SER	141	-9.663	13.346	19.779	1.00	0.00
ATOM	2181	OG	SER	141	-9.256	13.900	21.021	1.00	0.00
ATOM	2184	H	SER	141	-11.810	13.128	17.950	1.00	0.00
ATOM	2185	HA	SER	141	-10.556	15.270	19.524	1.00	0.00
ATOM	2186	1HB	SER	141	-8.784	13.021	19.241	1.00	0.00
ATOM	2187	2HB	SER	141	-10.304	12.498	19.966	1.00	0.00
ATOM	2188	HG	SER	141	-8.314	14.082	20.992	1.00	0.00
ATOM	2189	N	GLY	142	-10.216	15.492	16.804	1.00	0.00
ATOM	2190	CA	GLY	142	-9.523	15.907	15.600	1.00	0.00



ATOM	2191	C	GLY	142	-9.827	15.019	14.424	1.00	0.00
ATOM	2192	O	GLY	142	-10.470	15.438	13.461	1.00	0.00
ATOM	2193	H	GLY	142	-11.142	15.766	16.962	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.460	15.880	15.789	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.806	16.917	15.357	1.00	0.00
ATOM	2196	N	GLY	143	-9.368	13.790	14.511	1.00	0.00
ATOM	2197	CA	GLY	143	-9.593	12.837	13.449	1.00	0.00
ATOM	2198	C	GLY	143	-8.307	12.242	12.945	1.00	0.00
ATOM	2199	O	GLY	143	-7.228	12.628	13.389	1.00	0.00
ATOM	2200	H	GLY	143	-8.869	13.524	15.316	1.00	0.00
ATOM	2201	1HA	GLY	143	-10.093	13.330	12.632	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.217	12.044	13.816	1.00	0.00
ATOM	2203	N	TRP	144	-8.416	11.313	12.007	1.00	0.00
ATOM	2204	CA	TRP	144	-7.243	10.670	11.434	1.00	0.00
ATOM	2215	C	TRP	144	-6.360	11.706	10.757	1.00	0.00
ATOM	2216	O	TRP	144	-5.142	11.559	10.709	1.00	0.00
ATOM	2205	CB	TRP	144	-7.665	9.581	10.445	1.00	0.00
ATOM	2206	CG	TRP	144	-8.244	8.368	11.117	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.569	8.050	11.252	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.512	7.317	11.757	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.701	6.864	11.939	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.453	6.395	12.255	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.151	7.065	11.954	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.074	5.242	12.937	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.777	5.921	12.631	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.736	5.021	13.116	1.00	0.00
ATOM	2217	H	TRP	144	-9.309	11.057	11.688	1.00	0.00
ATOM	2218	HA	TRP	144	-6.681	10.221	12.239	1.00	0.00
ATOM	2219	LHB	TRP	144	-6.803	9.268	9.874	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.413	9.981	9.776	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.381	8.654	10.876	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.553	6.422	12.165	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.398	7.748	11.586	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.801	4.538	13.315	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.726	5.707	12.790	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.399	4.139	13.639	1.00	0.00
ATOM	2227	N	ALA	145	-6.989	12.775	10.273	1.00	0.00
ATOM	2228	CA	ALA	145	-6.276	13.865	9.626	1.00	0.00
ATOM	2230	C	ALA	145	-5.405	14.615	10.631	1.00	0.00
ATOM	2231	O	ALA	145	-4.349	15.145	10.279	1.00	0.00
ATOM	2229	CB	ALA	145	-7.256	14.820	8.964	1.00	0.00
ATOM	2232	H	ALA	145	-7.960	12.835	10.373	1.00	0.00
ATOM	2233	HA	ALA	145	-5.643	13.443	8.859	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.751	15.372	8.185	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.640	15.509	9.701	1.00	0.00
ATOM	2236	3HB	ALA	145	-8.073	14.259	8.535	1.00	0.00
ATOM	2237	N	GLU	146	-5.838	14.641	11.891	1.00	0.00
ATOM	2238	CA	GLU	146	-5.066	15.308	12.930	1.00	0.00
ATOM	2244	C	GLU	146	-3.788	14.519	13.172	1.00	0.00
ATOM	2245	O	GLU	146	-2.713	15.086	13.352	1.00	0.00
ATOM	2239	CB	GLU	146	-5.887	15.446	14.224	1.00	0.00
ATOM	2240	CG	GLU	146	-5.060	15.351	15.498	1.00	0.00
ATOM	2241	CD	GLU	146	-5.025	16.645	16.286	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.350	17.709	15.714	1.00	0.00
ATOM	2243	OE2	GLU	146	-4.655	16.605	17.479	1.00	0.00
ATOM	2246	H	GLU	146	-6.679	14.184	12.129	1.00	0.00
ATOM	2247	HA	GLU	146	-4.805	16.293	12.567	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.640	14.671	14.249	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.377	16.403	14.219	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.047	15.083	15.233	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.480	14.579	16.125	1.00	0.00
ATOM	2252	N	PHE	147	-3.922	13.200	13.135	1.00	0.00
ATOM	2253	CA	PHE	147	-2.796	12.295	13.317	1.00	0.00
ATOM	2261	C	PHE	147	-1.775	12.485	12.197	1.00	0.00
ATOM	2262	O	PHE	147	-0.566	12.502	12.446	1.00	0.00
ATOM	2254	CB	PHE	147	-3.296	10.845	13.360	1.00	0.00
ATOM	2255	CG	PHE	147	-2.230	9.826	13.649	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.168	10.123	14.492	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.290	8.569	13.072	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.188	9.185	14.747	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.314	7.626	13.328	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.261	7.935	14.165	1.00	0.00
ATOM	2263	H	PHE	147	-4.809	12.825	12.962	1.00	0.00



ATOM	2264	HA	PHE	147	-2.319	12.534	14.257	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.737	10.601	12.403	1.00	0.00
ATOM	2266	2HB	PHE	147	-4.049	10.758	14.126	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.111	11.100	14.948	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.113	8.325	12.417	1.00	0.00
ATOM	2269	HE1	PHE	147	0.633	9.428	15.405	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.372	6.650	12.871	1.00	0.00
ATOM	2271	HZ	PHE	147	0.511	7.201	14.359	1.00	0.00
ATOM	2272	N	THR	148	-2.259	12.645	10.970	1.00	0.00
ATOM	2273	CA	THR	148	-1.375	12.852	9.829	1.00	0.00
ATOM	2277	C	THR	148	-0.607	14.163	9.963	1.00	0.00
ATOM	2278	O	THR	148	0.520	14.286	9.498	1.00	0.00
ATOM	2274	CB	THR	148	-2.155	12.859	8.507	1.00	0.00
ATOM	2275	OG1	THR	148	-3.519	12.502	8.752	1.00	0.00
ATOM	2276	CG2	THR	148	-1.529	11.895	7.513	1.00	0.00
ATOM	2279	H	THR	148	-3.236	12.627	10.826	1.00	0.00
ATOM	2280	HA	THR	148	-0.668	12.034	9.803	1.00	0.00
ATOM	2281	HB	THR	148	-2.120	13.853	8.092	1.00	0.00
ATOM	2282	HG1	THR	148	-3.790	11.802	8.147	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.784	11.294	8.014	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.063	12.453	6.715	1.00	0.00
ATOM	2285	3HG2	THR	148	-2.295	11.251	7.105	1.00	0.00
ATOM	2286	N	ALA	149	-1.218	15.141	10.608	1.00	0.00
ATOM	2287	CA	ALA	149	-0.572	16.428	10.807	1.00	0.00
ATOM	2289	C	ALA	149	0.272	16.418	12.074	1.00	0.00
ATOM	2290	O	ALA	149	1.117	17.285	12.279	1.00	0.00
ATOM	2288	CB	ALA	149	-1.606	17.542	10.858	1.00	0.00
ATOM	2291	H	ALA	149	-2.120	14.993	10.965	1.00	0.00
ATOM	2292	HA	ALA	149	0.080	16.602	9.962	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.243	18.397	10.305	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.778	17.825	11.886	1.00	0.00
ATOM	2295	3HB	ALA	149	-2.530	17.196	10.419	1.00	0.00
ATOM	2296	N	LEU	150	0.028	15.434	12.925	1.00	0.00
ATOM	2297	CA	LEU	150	0.756	15.312	14.178	1.00	0.00
ATOM	2302	C	LEU	150	2.140	14.726	13.942	1.00	0.00
ATOM	2303	O	LEU	150	3.127	15.207	14.492	1.00	0.00
ATOM	2298	CB	LEU	150	-0.018	14.431	15.166	1.00	0.00
ATOM	2299	CG	LEU	150	-0.613	15.155	16.382	1.00	0.00
ATOM	2300	CD1	LEU	150	0.401	15.226	17.511	1.00	0.00
ATOM	2301	CD2	LEU	150	-1.094	16.551	16.007	1.00	0.00
ATOM	2304	H	LEU	150	-0.666	14.777	12.710	1.00	0.00
ATOM	2305	HA	LEU	150	0.862	16.302	14.598	1.00	0.00
ATOM	2306	1HB	LEU	150	0.650	13.664	15.528	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.824	13.953	14.632	1.00	0.00
ATOM	2308	HG	LEU	150	-1.465	14.595	16.742	1.00	0.00
ATOM	2309	1HD1	LEU	150	-0.053	15.685	18.376	1.00	0.00
ATOM	2310	2HD1	LEU	150	1.250	15.816	17.195	1.00	0.00
ATOM	2311	3HD1	LEU	150	0.730	14.229	17.763	1.00	0.00
ATOM	2312	1HD2	LEU	150	-2.116	16.680	16.332	1.00	0.00
ATOM	2313	2HD2	LEU	150	-1.038	16.675	14.936	1.00	0.00
ATOM	2314	3HD2	LEU	150	-0.468	17.289	16.488	1.00	0.00
ATOM	2315	N	TYR	151	2.208	13.674	13.133	1.00	0.00
ATOM	2316	CA	TYR	151	3.486	13.023	12.854	1.00	0.00
ATOM	2325	C	TYR	151	3.588	12.561	11.408	1.00	0.00
ATOM	2326	O	TYR	151	4.255	11.571	11.113	1.00	0.00
ATOM	2317	CB	TYR	151	3.669	11.825	13.779	1.00	0.00
ATOM	2318	CG	TYR	151	4.792	11.980	14.778	1.00	0.00
ATOM	2319	CD1	TYR	151	4.691	12.878	15.832	1.00	0.00
ATOM	2320	CD2	TYR	151	5.945	11.214	14.677	1.00	0.00
ATOM	2321	CE1	TYR	151	5.707	13.008	16.758	1.00	0.00
ATOM	2322	CE2	TYR	151	6.968	11.339	15.596	1.00	0.00
ATOM	2323	CZ	TYR	151	6.844	12.237	16.636	1.00	0.00
ATOM	2324	OH	TYR	151	7.856	12.353	17.559	1.00	0.00
ATOM	2327	H	TYR	151	1.380	13.320	12.731	1.00	0.00
ATOM	2328	HA	TYR	151	4.273	13.737	13.049	1.00	0.00
ATOM	2329	1HB	TYR	151	3.875	10.950	13.180	1.00	0.00
ATOM	2330	2HB	TYR	151	2.755	11.670	14.328	1.00	0.00
ATOM	2331	HD1	TYR	151	3.799	13.481	15.924	1.00	0.00
ATOM	2332	HD2	TYR	151	6.039	10.512	13.861	1.00	0.00
ATOM	2333	HE1	TYR	151	5.606	13.713	17.571	1.00	0.00
ATOM	2334	HE2	TYR	151	7.856	10.736	15.500	1.00	0.00
ATOM	2335	HH	TYR	151	7.994	11.498	17.989	1.00	0.00
ATOM	2336	N	GLY	152	2.931	13.268	10.510	1.00	0.00



ATOM	2337	CA	GLY	152	2.979	12.891	9.112	1.00	0.00
ATOM	2338	C	GLY	152	3.961	13.727	8.326	1.00	0.00
ATOM	2339	O	GLY	152	5.156	13.738	8.621	1.00	0.00
ATOM	2340	H	GLY	152	2.407	14.052	10.795	1.00	0.00
ATOM	2341	1HA	GLY	152	1.995	13.013	8.684	1.00	0.00
ATOM	2342	2HA	GLY	152	3.267	11.853	9.038	1.00	0.00
ATOM	2343	N	ASP	153	3.454	14.427	7.324	1.00	0.00
ATOM	2344	CA	ASP	153	4.287	15.276	6.480	1.00	0.00
ATOM	2349	C	ASP	153	4.688	16.543	7.224	1.00	0.00
ATOM	2350	O	ASP	153	5.866	16.891	7.298	1.00	0.00
ATOM	2345	CB	ASP	153	3.538	15.635	5.194	1.00	0.00
ATOM	2346	CG	ASP	153	4.404	16.377	4.195	1.00	0.00
ATOM	2347	OD1	ASP	153	5.565	15.970	3.983	1.00	0.00
ATOM	2348	OD2	ASP	153	3.916	17.362	3.605	1.00	0.00
ATOM	2351	H	ASP	153	2.492	14.370	7.144	1.00	0.00
ATOM	2352	HA	ASP	153	5.178	14.721	6.225	1.00	0.00
ATOM	2353	1HB	ASP	153	2.692	16.262	5.445	1.00	0.00
ATOM	2354	2HB	ASP	153	3.179	14.730	4.728	1.00	0.00
ATOM	2355	N	GLY	154	3.700	17.223	7.790	1.00	0.00
ATOM	2356	CA	GLY	154	3.963	18.441	8.533	1.00	0.00
ATOM	2357	C	GLY	154	4.124	18.183	10.016	1.00	0.00
ATOM	2358	O	GLY	154	3.327	18.650	10.822	1.00	0.00
ATOM	2359	H	GLY	154	2.783	16.892	7.707	1.00	0.00
ATOM	2360	1HA	GLY	154	3.142	19.126	8.384	1.00	0.00
ATOM	2361	2HA	GLY	154	4.869	18.893	8.156	1.00	0.00
ATOM	2362	N	ALA	155	5.160	17.443	10.376	1.00	0.00
ATOM	2363	CA	ALA	155	5.431	17.128	11.769	1.00	0.00
ATOM	2365	C	ALA	155	6.241	18.243	12.415	1.00	0.00
ATOM	2366	O	ALA	155	7.431	18.090	12.689	1.00	0.00
ATOM	2364	CB	ALA	155	6.160	15.796	11.878	1.00	0.00
ATOM	2367	H	ALA	155	5.766	17.108	9.688	1.00	0.00
ATOM	2368	HA	ALA	155	4.484	17.038	12.281	1.00	0.00
ATOM	2369	1HB	ALA	155	6.725	15.621	10.975	1.00	0.00
ATOM	2370	2HB	ALA	155	5.441	15.002	12.013	1.00	0.00
ATOM	2371	3HB	ALA	155	6.831	15.821	12.724	1.00	0.00
ATOM	2372	N	LEU	156	5.584	19.372	12.640	1.00	0.00
ATOM	2373	CA	LEU	156	6.218	20.531	13.239	1.00	0.00
ATOM	2378	C	LEU	156	6.661	20.230	14.666	1.00	0.00
ATOM	2379	O	LEU	156	6.146	19.311	15.305	1.00	0.00
ATOM	2374	CB	LEU	156	5.254	21.718	13.225	1.00	0.00
ATOM	2375	CG	LEU	156	3.792	21.385	13.531	1.00	0.00
ATOM	2376	CD1	LEU	156	3.228	22.363	14.546	1.00	0.00
ATOM	2377	CD2	LEU	156	2.955	21.407	12.261	1.00	0.00
ATOM	2380	H	LEU	156	4.642	19.430	12.386	1.00	0.00
ATOM	2381	HA	LEU	156	7.088	20.776	12.648	1.00	0.00
ATOM	2382	1HB	LEU	156	5.299	22.181	12.250	1.00	0.00
ATOM	2383	2HB	LEU	156	5.595	22.429	13.956	1.00	0.00
ATOM	2384	HG	LEU	156	3.737	20.392	13.956	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.408	21.990	15.544	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.165	22.472	14.389	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.710	23.322	14.429	1.00	0.00
ATOM	2388	1HD2	LEU	156	3.429	20.797	11.507	1.00	0.00
ATOM	2389	2HD2	LEU	156	2.871	22.422	11.903	1.00	0.00
ATOM	2390	3HD2	LEU	156	1.971	21.015	12.472	1.00	0.00
ATOM	2391	N	GLU	157	7.620	21.008	15.155	1.00	0.00
ATOM	2392	CA	GLU	157	8.159	20.834	16.502	1.00	0.00
ATOM	2398	C	GLU	157	7.063	20.841	17.566	1.00	0.00
ATOM	2399	O	GLU	157	7.178	20.168	18.591	1.00	0.00
ATOM	2393	CB	GLU	157	9.180	21.926	16.805	1.00	0.00
ATOM	2394	CG	GLU	157	10.172	21.546	17.892	1.00	0.00
ATOM	2395	CD	GLU	157	11.239	20.587	17.408	1.00	0.00
ATOM	2396	OE1	GLU	157	10.901	19.616	16.699	1.00	0.00
ATOM	2397	OE2	GLU	157	12.423	20.800	17.741	1.00	0.00
ATOM	2400	H	GLU	157	7.990	21.717	14.587	1.00	0.00
ATOM	2401	HA	GLU	157	8.659	19.883	16.534	1.00	0.00
ATOM	2402	1HB	GLU	157	8.654	22.809	17.121	1.00	0.00
ATOM	2403	2HB	GLU	157	9.733	22.149	15.904	1.00	0.00
ATOM	2404	1HG	GLU	157	9.631	21.082	18.705	1.00	0.00
ATOM	2405	2HG	GLU	157	10.653	22.444	18.250	1.00	0.00
ATOM	2406	N	GLU	158	5.998	21.594	17.318	1.00	0.00
ATOM	2407	CA	GLU	158	4.894	21.668	18.265	1.00	0.00
ATOM	2413	C	GLU	158	4.161	20.338	18.333	1.00	0.00
ATOM	2414	O	GLU	158	3.924	19.808	19.413	1.00	0.00



ATOM	2408	CB	GLU	158	3.920	22.780	17.884	1.00	0.00
ATOM	2409	CG	GLU	158	4.320	24.148	18.410	1.00	0.00
ATOM	2410	CD	GLU	158	4.157	24.263	19.912	1.00	0.00
ATOM	2411	OE1	GLU	158	4.131	23.221	20.598	1.00	0.00
ATOM	2412	OE2	GLU	158	4.063	25.397	20.420	1.00	0.00
ATOM	2415	H	GLU	158	5.952	22.102	16.482	1.00	0.00
ATOM	2416	HA	GLU	158	5.310	21.885	19.239	1.00	0.00
ATOM	2417	1HB	GLU	158	2.946	22.538	18.284	1.00	0.00
ATOM	2418	2HB	GLU	158	3.855	22.835	16.808	1.00	0.00
ATOM	2419	1HG	GLU	158	3.704	24.897	17.936	1.00	0.00
ATOM	2420	2HG	GLU	158	5.356	24.325	18.161	1.00	0.00
ATOM	2421	N	ALA	159	3.825	19.798	17.170	1.00	0.00
ATOM	2422	CA	ALA	159	3.133	18.520	17.092	1.00	0.00
ATOM	2424	C	ALA	159	4.013	17.405	17.641	1.00	0.00
ATOM	2425	O	ALA	159	3.530	16.477	18.292	1.00	0.00
ATOM	2423	CB	ALA	159	2.728	18.227	15.655	1.00	0.00
ATOM	2426	H	ALA	159	4.058	20.263	16.342	1.00	0.00
ATOM	2427	HA	ALA	159	2.234	18.587	17.690	1.00	0.00
ATOM	2428	1HB	ALA	159	1.656	18.311	15.558	1.00	0.00
ATOM	2429	2HB	ALA	159	3.036	17.226	15.391	1.00	0.00
ATOM	2430	3HB	ALA	159	3.206	18.937	14.995	1.00	0.00
ATOM	2431	N	ARG	160	5.311	17.520	17.385	1.00	0.00
ATOM	2432	CA	ARG	160	6.285	16.540	17.851	1.00	0.00
ATOM	2440	C	ARG	160	6.272	16.440	19.375	1.00	0.00
ATOM	2441	O	ARG	160	6.075	15.358	19.934	1.00	0.00
ATOM	2433	CB	ARG	160	7.687	16.909	17.366	1.00	0.00
ATOM	2434	CG	ARG	160	8.026	16.344	15.997	1.00	0.00
ATOM	2435	CD	ARG	160	9.451	15.819	15.948	1.00	0.00
ATOM	2436	NE	ARG	160	10.433	16.903	15.899	1.00	0.00
ATOM	2437	CZ	ARG	160	11.631	16.804	15.327	1.00	0.00
ATOM	2438	NH1	ARG	160	12.010	15.669	14.745	1.00	0.00
ATOM	2439	NH2	ARG	160	12.445	17.850	15.338	1.00	0.00
ATOM	2442	H	ARG	160	5.625	18.293	16.863	1.00	0.00
ATOM	2443	HA	ARG	160	6.012	15.580	17.438	1.00	0.00
ATOM	2444	1HB	ARG	160	8.410	16.535	18.076	1.00	0.00
ATOM	2445	2HB	ARG	160	7.766	17.986	17.319	1.00	0.00
ATOM	2446	1HG	ARG	160	7.914	17.125	15.259	1.00	0.00
ATOM	2447	2HG	ARG	160	7.348	15.534	15.773	1.00	0.00
ATOM	2448	1HD	ARG	160	9.565	15.204	15.068	1.00	0.00
ATOM	2449	2HD	ARG	160	9.633	15.223	16.830	1.00	0.00
ATOM	2450	HE	ARG	160	10.182	17.764	16.317	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.390	14.875	14.730	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.921	15.594	14.319	1.00	0.00
ATOM	2453	1HH2	ARG	160	12.148	18.709	15.785	1.00	0.00
ATOM	2454	2HH2	ARG	160	13.345	17.800	14.900	1.00	0.00
ATOM	2455	N	ARG	161	6.477	17.569	20.047	1.00	0.00
ATOM	2456	CA	ARG	161	6.486	17.581	21.506	1.00	0.00
ATOM	2464	C	ARG	161	5.090	17.328	22.067	1.00	0.00
ATOM	2465	O	ARG	161	4.944	16.766	23.153	1.00	0.00
ATOM	2457	CB	ARG	161	7.067	18.887	22.053	1.00	0.00
ATOM	2458	CG	ARG	161	6.247	20.125	21.754	1.00	0.00
ATOM	2459	CD	ARG	161	6.516	21.212	22.786	1.00	0.00
ATOM	2460	NE	ARG	161	5.914	22.496	22.429	1.00	0.00
ATOM	2461	CZ	ARG	161	6.117	23.629	23.105	1.00	0.00
ATOM	2462	NH1	ARG	161	6.923	23.649	24.158	1.00	0.00
ATOM	2463	NH2	ARG	161	5.519	24.749	22.718	1.00	0.00
ATOM	2466	H	ARG	161	6.626	18.407	19.554	1.00	0.00
ATOM	2467	HA	ARG	161	7.124	16.775	21.819	1.00	0.00
ATOM	2468	1HB	ARG	161	8.052	19.027	21.632	1.00	0.00
ATOM	2469	2HB	ARG	161	7.158	18.799	23.125	1.00	0.00
ATOM	2470	1HG	ARG	161	5.197	19.872	21.769	1.00	0.00
ATOM	2471	2HG	ARG	161	6.519	20.483	20.777	1.00	0.00
ATOM	2472	1HD	ARG	161	7.586	21.342	22.878	1.00	0.00
ATOM	2473	2HD	ARG	161	6.115	20.894	23.736	1.00	0.00
ATOM	2474	HE	ARG	161	5.311	22.514	21.639	1.00	0.00
ATOM	2475	1HH1	ARG	161	7.395	22.810	24.455	1.00	0.00
ATOM	2476	2HH1	ARG	161	7.058	24.504	24.674	1.00	0.00
ATOM	2477	1HH2	ARG	161	4.910	24.748	21.909	1.00	0.00
ATOM	2478	2HH2	ARG	161	5.665	25.599	23.224	1.00	0.00
ATOM	2479	N	LEU	162	4.067	17.723	21.314	1.00	0.00
ATOM	2480	CA	LEU	162	2.687	17.519	21.738	1.00	0.00
ATOM	2485	C	LEU	162	2.379	16.033	21.838	1.00	0.00
ATOM	2486	O	LEU	162	1.704	15.594	22.767	1.00	0.00



ATOM	2481	CB	LEU	162	1.713	18.190	20.764	1.00	0.00
ATOM	2482	CG	LEU	162	0.777	19.222	21.393	1.00	0.00
ATOM	2483	CD1	LEU	162	0.678	20.458	20.513	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.600	18.619	21.624	1.00	0.00
ATOM	2487	H	LEU	162	4.243	18.154	20.451	1.00	0.00
ATOM	2488	HA	LEU	162	2.572	17.965	22.715	1.00	0.00
ATOM	2489	1HB	LEU	162	1.111	17.421	20.305	1.00	0.00
ATOM	2490	2HB	LEU	162	2.291	18.680	19.994	1.00	0.00
ATOM	2491	HG	LEU	162	1.175	19.525	22.351	1.00	0.00
ATOM	2492	1HD1	LEU	162	1.639	20.659	20.066	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.375	21.304	21.113	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.053	20.290	19.736	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.242	18.856	20.788	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.024	19.026	22.530	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.513	17.546	21.717	1.00	0.00
ATOM	2498	N	ARG	163	2.886	15.255	20.888	1.00	0.00
ATOM	2499	CA	ARG	163	2.661	13.818	20.899	1.00	0.00
ATOM	2507	C	ARG	163	3.430	13.171	22.043	1.00	0.00
ATOM	2508	O	ARG	163	2.923	12.259	22.700	1.00	0.00
ATOM	2500	CB	ARG	163	3.062	13.179	19.569	1.00	0.00
ATOM	2501	CG	ARG	163	2.625	11.727	19.458	1.00	0.00
ATOM	2502	CD	ARG	163	2.696	11.229	18.028	1.00	0.00
ATOM	2503	NE	ARG	163	3.793	10.281	17.836	1.00	0.00
ATOM	2504	CZ	ARG	163	3.821	9.355	16.883	1.00	0.00
ATOM	2505	NH1	ARG	163	2.799	9.225	16.046	1.00	0.00
ATOM	2506	NH2	ARG	163	4.878	8.567	16.770	1.00	0.00
ATOM	2509	H	ARG	163	3.428	15.657	20.170	1.00	0.00
ATOM	2510	HA	ARG	163	1.605	13.656	21.061	1.00	0.00
ATOM	2511	1HB	ARG	163	4.136	13.220	19.469	1.00	0.00
ATOM	2512	2HB	ARG	163	2.609	13.736	18.763	1.00	0.00
ATOM	2513	1HG	ARG	163	1.607	11.640	19.810	1.00	0.00
ATOM	2514	2HG	ARG	163	3.272	11.118	20.071	1.00	0.00
ATOM	2515	1HD	ARG	163	2.845	12.074	17.372	1.00	0.00
ATOM	2516	2HD	ARG	163	1.764	10.742	17.781	1.00	0.00
ATOM	2517	HE	ARG	163	4.564	10.349	18.450	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.003	9.826	16.130	1.00	0.00
ATOM	2519	2HH1	ARG	163	2.822	8.534	15.325	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.659	8.679	17.412	1.00	0.00
ATOM	2521	2HH2	ARG	163	4.920	7.868	16.058	1.00	0.00
ATOM	2522	N	GLU	164	4.643	13.659	22.288	1.00	0.00
ATOM	2523	CA	GLU	164	5.474	13.136	23.366	1.00	0.00
ATOM	2529	C	GLU	164	4.801	13.372	24.712	1.00	0.00
ATOM	2530	O	GLU	164	4.712	12.467	25.543	1.00	0.00
ATOM	2524	CB	GLU	164	6.861	13.777	23.340	1.00	0.00
ATOM	2525	CG	GLU	164	7.969	12.803	22.965	1.00	0.00
ATOM	2526	CD	GLU	164	9.229	13.006	23.780	1.00	0.00
ATOM	2527	OE1	GLU	164	9.334	14.031	24.487	1.00	0.00
ATOM	2528	OE2	GLU	164	10.125	12.138	23.716	1.00	0.00
ATOM	2531	H	GLU	164	4.985	14.396	21.734	1.00	0.00
ATOM	2532	HA	GLU	164	5.577	12.072	23.214	1.00	0.00
ATOM	2533	1HB	GLU	164	7.079	14.178	24.319	1.00	0.00
ATOM	2534	2HB	GLU	164	6.860	14.584	22.622	1.00	0.00
ATOM	2535	1HG	GLU	164	8.207	12.935	21.921	1.00	0.00
ATOM	2536	2HG	GLU	164	7.616	11.795	23.128	1.00	0.00
ATOM	2537	N	GLY	165	4.300	14.586	24.911	1.00	0.00
ATOM	2538	CA	GLY	165	3.617	14.908	26.147	1.00	0.00
ATOM	2539	C	GLY	165	2.293	14.177	26.248	1.00	0.00
ATOM	2540	O	GLY	165	1.785	13.925	27.343	1.00	0.00
ATOM	2541	H	GLY	165	4.383	15.266	24.203	1.00	0.00
ATOM	2542	1HA	GLY	165	3.438	15.972	26.185	1.00	0.00
ATOM	2543	2HA	GLY	165	4.242	14.625	26.980	1.00	0.00
ATOM	2544	N	ASN	166	1.740	13.833	25.093	1.00	0.00
ATOM	2545	CA	ASN	166	0.473	13.123	25.019	1.00	0.00
ATOM	2550	C	ASN	166	0.608	11.712	25.564	1.00	0.00
ATOM	2551	O	ASN	166	-0.113	11.315	26.480	1.00	0.00
ATOM	2546	CB	ASN	166	-0.018	13.051	23.570	1.00	0.00
ATOM	2547	CG	ASN	166	-1.523	13.168	23.460	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.258	12.682	24.312	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.990	13.796	22.396	1.00	0.00
ATOM	2552	H	ASN	166	2.203	14.068	24.261	1.00	0.00
ATOM	2553	HA	ASN	166	-0.252	13.662	25.611	1.00	0.00
ATOM	2554	1HB	ASN	166	0.283	12.105	23.145	1.00	0.00
ATOM	2555	2HB	ASN	166	0.429	13.848	23.001	1.00	0.00



ATOM	2556	1HD2	ASN	166	-1.345	14.141	21.748	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.961	13.900	22.304	1.00	0.00
ATOM	2558	N	TRP	167	1.532	10.947	24.989	1.00	0.00
ATOM	2559	CA	TRP	167	1.741	9.574	25.410	1.00	0.00
ATOM	2570	C	TRP	167	2.313	9.506	26.814	1.00	0.00
ATOM	2571	O	TRP	167	2.177	8.488	27.484	1.00	0.00
ATOM	2560	CB	TRP	167	2.604	8.781	24.406	1.00	0.00
ATOM	2561	CG	TRP	167	4.063	9.145	24.357	1.00	0.00
ATOM	2562	CD1	TRP	167	4.690	9.872	23.386	1.00	0.00
ATOM	2563	CD2	TRP	167	5.085	8.765	25.289	1.00	0.00
ATOM	2564	NE1	TRP	167	6.029	9.984	23.669	1.00	0.00
ATOM	2565	CE2	TRP	167	6.296	9.314	24.831	1.00	0.00
ATOM	2566	CE3	TRP	167	5.088	8.023	26.472	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.498	9.141	25.512	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.281	7.852	27.148	1.00	0.00
ATOM	2569	CH2	TRP	167	7.472	8.409	26.666	1.00	0.00
ATOM	2572	H	TRP	167	2.074	11.313	24.265	1.00	0.00
ATOM	2573	HA	TRP	167	0.763	9.115	25.441	1.00	0.00
ATOM	2574	1HB	TRP	167	2.195	8.926	23.415	1.00	0.00
ATOM	2575	2HB	TRP	167	2.544	7.734	24.654	1.00	0.00
ATOM	2576	HD1	TRP	167	4.190	10.301	22.529	1.00	0.00
ATOM	2577	HE1	TRP	167	6.688	10.467	23.124	1.00	0.00
ATOM	2578	HE3	TRP	167	4.174	7.587	26.860	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.424	9.364	25.152	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.303	7.279	28.064	1.00	0.00
ATOM	2581	HH2	TRP	167	8.381	8.249	27.227	1.00	0.00
ATOM	2582	N	ALA	168	2.931	10.591	27.259	1.00	0.00
ATOM	2583	CA	ALA	168	3.507	10.644	28.593	1.00	0.00
ATOM	2585	C	ALA	168	2.481	10.243	29.639	1.00	0.00
ATOM	2586	O	ALA	168	2.734	9.359	30.456	1.00	0.00
ATOM	2584	CB	ALA	168	4.055	12.032	28.885	1.00	0.00
ATOM	2587	H	ALA	168	2.999	11.379	26.678	1.00	0.00
ATOM	2588	HA	ALA	168	4.325	9.944	28.626	1.00	0.00
ATOM	2589	1HB	ALA	168	3.517	12.462	29.718	1.00	0.00
ATOM	2590	2HB	ALA	168	3.929	12.658	28.014	1.00	0.00
ATOM	2591	3HB	ALA	168	5.104	11.962	29.132	1.00	0.00
ATOM	2592	N	SER	169	1.326	10.892	29.606	1.00	0.00
ATOM	2593	CA	SER	169	0.261	10.602	30.555	1.00	0.00
ATOM	2596	C	SER	169	-0.674	9.475	30.087	1.00	0.00
ATOM	2597	O	SER	169	-1.288	8.806	30.915	1.00	0.00
ATOM	2594	CB	SER	169	-0.549	11.868	30.833	1.00	0.00
ATOM	2595	OG	SER	169	0.012	12.606	31.907	1.00	0.00
ATOM	2598	H	SER	169	1.187	11.588	28.927	1.00	0.00
ATOM	2599	HA	SER	169	0.731	10.286	31.479	1.00	0.00
ATOM	2600	1HB	SER	169	-1.561	11.595	31.089	1.00	0.00
ATOM	2601	2HB	SER	169	-0.556	12.491	29.950	1.00	0.00
ATOM	2602	HG	SER	169	-0.226	12.175	32.746	1.00	0.00
ATOM	2603	N	VAL	170	-0.814	9.262	28.774	1.00	0.00
ATOM	2604	CA	VAL	170	-1.729	8.212	28.302	1.00	0.00
ATOM	2608	C	VAL	170	-1.102	6.827	28.389	1.00	0.00
ATOM	2609	O	VAL	170	-1.800	5.819	28.494	1.00	0.00
ATOM	2605	CB	VAL	170	-2.262	8.457	26.871	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.062	9.747	26.814	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.147	8.469	25.842	1.00	0.00
ATOM	2610	H	VAL	170	-0.320	9.819	28.127	1.00	0.00
ATOM	2611	HA	VAL	170	-2.582	8.225	28.967	1.00	0.00
ATOM	2612	HB	VAL	170	-2.924	7.643	26.625	1.00	0.00
ATOM	2613	1HG1	VAL	170	-4.116	9.519	26.838	1.00	0.00
ATOM	2614	2HG1	VAL	170	-2.828	10.277	25.902	1.00	0.00
ATOM	2615	3HG1	VAL	170	-2.807	10.364	27.663	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.193	8.433	26.346	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.208	9.376	25.253	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.244	7.611	25.193	1.00	0.00
ATOM	2619	N	ARG	171	0.213	6.768	28.363	1.00	0.00
ATOM	2620	CA	ARG	171	0.899	5.495	28.459	1.00	0.00
ATOM	2628	C	ARG	171	0.980	5.064	29.917	1.00	0.00
ATOM	2629	O	ARG	171	1.119	3.878	30.211	1.00	0.00
ATOM	2621	CB	ARG	171	2.298	5.584	27.845	1.00	0.00
ATOM	2622	CG	ARG	171	2.776	4.290	27.206	1.00	0.00
ATOM	2623	CD	ARG	171	3.992	4.528	26.324	1.00	0.00
ATOM	2624	NE	ARG	171	5.212	4.704	27.113	1.00	0.00
ATOM	2625	CZ	ARG	171	6.182	3.791	27.212	1.00	0.00
ATOM	2626	NH1	ARG	171	6.094	2.642	26.549	1.00	0.00



ATOM	2627	NH2	ARG	171	7.244	4.028	27.972	1.00	0.00
ATOM	2630	H	ARG	171	0.735	7.600	28.287	1.00	0.00
ATOM	2631	HA	ARG	171	0.319	4.765	27.912	1.00	0.00
ATOM	2632	1HB	ARG	171	3.000	5.863	28.616	1.00	0.00
ATOM	2633	2HB	ARG	171	2.291	6.352	27.081	1.00	0.00
ATOM	2634	1HG	ARG	171	1.979	3.879	26.605	1.00	0.00
ATOM	2635	2HG	ARG	171	3.040	3.590	27.986	1.00	0.00
ATOM	2636	1HD	ARG	171	3.823	5.420	25.733	1.00	0.00
ATOM	2637	2HD	ARG	171	4.118	3.681	25.667	1.00	0.00
ATOM	2638	HE	ARG	171	5.309	5.551	27.605	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.303	2.452	25.971	1.00	0.00
ATOM	2640	2HH1	ARG	171	6.832	1.955	26.631	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.327	4.898	28.480	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.973	3.342	28.049	1.00	0.00
ATOM	2643	N	THR	172	0.888	6.037	30.816	1.00	0.00
ATOM	2644	CA	THR	172	0.956	5.780	32.247	1.00	0.00
ATOM	2648	C	THR	172	-0.417	5.517	32.849	1.00	0.00
ATOM	2649	O	THR	172	-0.546	4.711	33.764	1.00	0.00
ATOM	2645	CB	THR	172	1.602	6.970	32.971	1.00	0.00
ATOM	2646	OG1	THR	172	1.337	8.165	32.233	1.00	0.00
ATOM	2647	CG2	THR	172	3.102	6.771	33.113	1.00	0.00
ATOM	2650	H	THR	172	0.777	6.962	30.510	1.00	0.00
ATOM	2651	HA	THR	172	1.572	4.908	32.404	1.00	0.00
ATOM	2652	HB	THR	172	1.165	7.063	33.952	1.00	0.00
ATOM	2653	HG1	THR	172	2.157	8.491	31.833	1.00	0.00
ATOM	2654	1HG2	THR	172	3.530	6.554	32.145	1.00	0.00
ATOM	2655	2HG2	THR	172	3.294	5.945	33.783	1.00	0.00
ATOM	2656	3HG2	THR	172	3.549	7.670	33.512	1.00	0.00
ATOM	2657	N	VAL	173	-1.438	6.200	32.346	1.00	0.00
ATOM	2658	CA	VAL	173	-2.791	6.022	32.867	1.00	0.00
ATOM	2662	C	VAL	173	-3.280	4.586	32.646	1.00	0.00
ATOM	2663	O	VAL	173	-4.061	4.052	33.431	1.00	0.00
ATOM	2659	CB	VAL	173	-3.778	7.041	32.246	1.00	0.00
ATOM	2660	CG1	VAL	173	-4.035	6.757	30.775	1.00	0.00
ATOM	2661	CG2	VAL	173	-5.084	7.077	33.028	1.00	0.00
ATOM	2664	H	VAL	173	-1.279	6.849	31.617	1.00	0.00
ATOM	2665	HA	VAL	173	-2.751	6.206	33.932	1.00	0.00
ATOM	2666	HB	VAL	173	-3.325	8.014	32.311	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.580	7.581	30.339	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.614	5.851	30.681	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.092	6.638	30.263	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.060	6.328	33.806	1.00	0.00
ATOM	2671	2HG2	VAL	173	-5.910	6.876	32.362	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.211	8.054	33.472	1.00	0.00
ATOM	2673	N	LEU	174	-2.797	3.960	31.581	1.00	0.00
ATOM	2674	CA	LEU	174	-3.173	2.582	31.264	1.00	0.00
ATOM	2679	C	LEU	174	-1.952	1.665	31.277	1.00	0.00
ATOM	2680	O	LEU	174	-1.811	0.785	30.427	1.00	0.00
ATOM	2675	CB	LEU	174	-3.868	2.518	29.904	1.00	0.00
ATOM	2676	CG	LEU	174	-4.647	3.774	29.536	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.655	3.980	28.034	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.067	3.703	30.074	1.00	0.00
ATOM	2681	H	LEU	174	-2.171	4.436	30.999	1.00	0.00
ATOM	2682	HA	LEU	174	-3.864	2.247	32.024	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.554	1.684	29.909	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.119	2.344	29.145	1.00	0.00
ATOM	2685	HG	LEU	174	-4.160	4.626	29.990	1.00	0.00
ATOM	2686	1HD1	LEU	174	-4.910	5.006	27.813	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.385	3.323	27.584	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.676	3.758	27.636	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.043	3.684	31.153	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.547	2.806	29.708	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.622	4.569	29.742	1.00	0.00
ATOM	2692	N	THR	175	-1.067	1.881	32.242	1.00	0.00
ATOM	2693	CA	THR	175	0.151	1.079	32.371	1.00	0.00
ATOM	2697	C	THR	175	-0.149	-0.404	32.620	1.00	0.00
ATOM	2698	O	THR	175	0.668	-1.271	32.308	1.00	0.00
ATOM	2694	CB	THR	175	1.024	1.593	33.528	1.00	0.00
ATOM	2695	OG1	THR	175	0.217	2.350	34.440	1.00	0.00
ATOM	2696	CG2	THR	175	2.164	2.454	33.007	1.00	0.00
ATOM	2699	H	THR	175	-1.230	2.610	32.884	1.00	0.00
ATOM	2700	HA	THR	175	0.715	1.175	31.455	1.00	0.00
ATOM	2701	HB	THR	175	1.442	0.744	34.049	1.00	0.00



ATOM	2702	HG1	THR	175	0.394	3.294	34.316	1.00	0.00
ATOM	2703	1HG2	THR	175	2.642	2.959	33.833	1.00	0.00
ATOM	2704	2HG2	THR	175	1.772	3.187	32.316	1.00	0.00
ATOM	2705	3HG2	THR	175	2.884	1.830	32.500	1.00	0.00
ATOM	2706	N	GLY	176	-1.312	-0.687	33.197	1.00	0.00
ATOM	2707	CA	GLY	176	-1.684	-2.061	33.501	1.00	0.00
ATOM	2708	C	GLY	176	-2.245	-2.820	32.310	1.00	0.00
ATOM	2709	O	GLY	176	-2.752	-3.932	32.466	1.00	0.00
ATOM	2710	H	GLY	176	-1.920	0.044	33.437	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.427	-2.050	34.285	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.811	-2.583	33.859	1.00	0.00
ATOM	2713	N	ALA	177	-2.154	-2.232	31.123	1.00	0.00
ATOM	2714	CA	ALA	177	-2.661	-2.870	29.911	1.00	0.00
ATOM	2716	C	ALA	177	-1.779	-4.043	29.471	1.00	0.00
ATOM	2717	O	ALA	177	-2.131	-4.776	28.557	1.00	0.00
ATOM	2715	CB	ALA	177	-2.774	-1.849	28.788	1.00	0.00
ATOM	2718	H	ALA	177	-1.741	-1.347	31.060	1.00	0.00
ATOM	2719	HA	ALA	177	-3.654	-3.243	30.122	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.712	-1.984	28.271	1.00	0.00
ATOM	2721	2HB	ALA	177	-1.958	-1.986	28.093	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.731	-0.852	29.202	1.00	0.00
ATOM	2723	N	VAL	178	-0.636	-4.220	30.119	1.00	0.00
ATOM	2724	CA	VAL	178	0.275	-5.313	29.775	1.00	0.00
ATOM	2728	C	VAL	178	-0.212	-6.629	30.385	1.00	0.00
ATOM	2729	O	VAL	178	0.416	-7.180	31.291	1.00	0.00
ATOM	2725	CB	VAL	178	1.717	-5.030	30.254	1.00	0.00
ATOM	2726	CG1	VAL	178	2.724	-5.729	29.355	1.00	0.00
ATOM	2727	CG2	VAL	178	1.993	-3.533	30.301	1.00	0.00
ATOM	2730	H	VAL	178	-0.398	-3.610	30.844	1.00	0.00
ATOM	2731	HA	VAL	178	0.287	-5.411	28.698	1.00	0.00
ATOM	2732	HB	VAL	178	1.826	-5.426	31.253	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.176	-5.008	28.692	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.222	-6.488	28.772	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.489	-6.190	29.962	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.932	-3.356	30.803	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.198	-3.037	30.837	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.044	-3.146	29.294	1.00	0.00
ATOM	2739	N	ALA	179	-1.350	-7.108	29.894	1.00	0.00
ATOM	2740	CA	ALA	179	-1.955	-8.341	30.392	1.00	0.00
ATOM	2742	C	ALA	179	-1.632	-9.542	29.506	1.00	0.00
ATOM	2743	O	ALA	179	-2.246	-10.599	29.641	1.00	0.00
ATOM	2741	CB	ALA	179	-3.466	-8.174	30.504	1.00	0.00
ATOM	2744	H	ALA	179	-1.808	-6.603	29.185	1.00	0.00
ATOM	2745	HA	ALA	179	-1.567	-8.524	31.383	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.955	-8.855	29.821	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.736	-7.159	30.254	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.779	-8.392	31.515	1.00	0.00
ATOM	2749	N	LEU	180	-0.679	-9.389	28.598	1.00	0.00
ATOM	2750	CA	LEU	180	-0.313	-10.486	27.707	1.00	0.00
ATOM	2755	C	LEU	180	0.952	-11.186	28.189	1.00	0.00
ATOM	2756	O	LEU	180	1.290	-12.274	27.718	1.00	0.00
ATOM	2751	CB	LEU	180	-0.110	-9.984	26.280	1.00	0.00
ATOM	2752	CG	LEU	180	-1.124	-8.953	25.793	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.592	-8.241	24.562	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.460	-9.614	25.491	1.00	0.00
ATOM	2757	H	LEU	180	-0.213	-8.528	28.519	1.00	0.00
ATOM	2758	HA	LEU	180	-1.125	-11.198	27.715	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.149	-10.834	25.614	1.00	0.00
ATOM	2760	2HB	LEU	180	0.873	-9.543	26.215	1.00	0.00
ATOM	2761	HG	LEU	180	-1.281	-8.215	26.566	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.750	-7.177	24.663	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.113	-8.599	23.685	1.00	0.00
ATOM	2764	3HD1	LEU	180	0.464	-8.440	24.459	1.00	0.00
ATOM	2765	1HD2	LEU	180	-3.230	-9.164	26.100	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.398	-10.670	25.711	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.701	-9.477	24.447	1.00	0.00
ATOM	2768	N	GLY	181	1.650	-10.550	29.117	1.00	0.00
ATOM	2769	CA	GLY	181	2.878	-11.106	29.647	1.00	0.00
ATOM	2770	C	GLY	181	2.642	-12.283	30.576	1.00	0.00
ATOM	2771	O	GLY	181	2.553	-12.118	31.793	1.00	0.00
ATOM	2772	H	GLY	181	1.333	-9.684	29.437	1.00	0.00
ATOM	2773	1HA	GLY	181	3.403	-10.334	30.190	1.00	0.00
ATOM	2774	2HA	GLY	181	3.496	-11.433	28.823	1.00	0.00



ATOM	2775	N	ALA	182	2.547	-13.473	30.005	1.00	0.00
ATOM	2776	CA	ALA	182	2.331	-14.681	30.784	1.00	0.00
ATOM	2778	C	ALA	182	3.659	-15.367	31.077	1.00	0.00
ATOM	2779	O	ALA	182	4.340	-15.838	30.165	1.00	0.00
ATOM	2777	CB	ALA	182	1.394	-15.627	30.048	1.00	0.00
ATOM	2780	H	ALA	182	2.633	-13.543	29.028	1.00	0.00
ATOM	2781	HA	ALA	182	1.866	-14.399	31.718	1.00	0.00
ATOM	2782	1HB	ALA	182	1.962	-16.450	29.639	1.00	0.00
ATOM	2783	2HB	ALA	182	0.901	-15.097	29.246	1.00	0.00
ATOM	2784	3HB	ALA	182	0.654	-16.009	30.736	1.00	0.00
ATOM	2785	N	LEU	183	4.024	-15.418	32.349	1.00	0.00
ATOM	2790	CA	LEU	183	5.270	-16.042	32.760	1.00	0.00
ATOM	2791	C	LEU	183	4.985	-17.215	33.686	1.00	0.00
ATOM	2792	O	LEU	183	4.025	-17.119	34.475	1.00	0.00
ATOM	2786	CB	LEU	183	6.175	-15.023	33.458	1.00	0.00
ATOM	2787	CG	LEU	183	6.147	-13.613	32.862	1.00	0.00
ATOM	2788	CD1	LEU	183	6.040	-12.568	33.962	1.00	0.00
ATOM	2789	CD2	LEU	183	7.385	-13.368	32.011	1.00	0.00
ATOM	2793	OXT	LEU	183	5.714	-18.228	33.607	1.00	0.00
ATOM	2794	H	LEU	183	3.441	-15.028	33.032	1.00	0.00
ATOM	2795	HA	LEU	183	5.768	-16.410	31.874	1.00	0.00
ATOM	2796	1HB	LEU	183	7.191	-15.387	33.417	1.00	0.00
ATOM	2797	2HB	LEU	183	5.875	-14.959	34.495	1.00	0.00
ATOM	2798	HG	LEU	183	5.279	-13.517	32.225	1.00	0.00
ATOM	2799	1HD1	LEU	183	6.929	-11.957	33.965	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.938	-13.060	34.917	1.00	0.00
ATOM	2801	3HD1	LEU	183	5.175	-11.946	33.784	1.00	0.00
ATOM	2802	1HD2	LEU	183	8.225	-13.149	32.654	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.208	-12.530	31.352	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.600	-14.249	31.425	1.00	0.00
ENDMDL									
MODEL									
	4								
ATOM	3	N	GLY	-4	-15.593	20.805	10.117	1.00	0.00
ATOM	4	CA	GLY	-4	-14.912	20.797	8.801	1.00	0.00
ATOM	1	C	GLY	-4	-15.837	21.241	7.688	1.00	0.00
ATOM	2	O	GLY	-4	-17.054	21.113	7.809	1.00	0.00
ATOM	5	1HA	GLY	-4	-14.064	21.466	8.840	1.00	0.00
ATOM	6	2HA	GLY	-4	-14.563	19.797	8.591	1.00	0.00
ATOM	7	1HT	GLY	-4	-16.284	20.023	10.166	1.00	0.00
ATOM	8	2HT	GLY	-4	-16.094	21.707	10.251	1.00	0.00
ATOM	9	3HT	GLY	-4	-14.895	20.687	10.884	1.00	0.00
ATOM	10	N	PRO	-3	-15.288	21.786	6.589	1.00	0.00
ATOM	11	CA	PRO	-3	-16.084	22.264	5.452	1.00	0.00
ATOM	15	C	PRO	-3	-16.743	21.119	4.687	1.00	0.00
ATOM	16	O	PRO	-3	-17.807	21.295	4.092	1.00	0.00
ATOM	12	CB	PRO	-3	-15.059	22.980	4.559	1.00	0.00
ATOM	13	CG	PRO	-3	-13.837	23.142	5.402	1.00	0.00
ATOM	14	CD	PRO	-3	-13.851	21.999	6.371	1.00	0.00
ATOM	17	HA	PRO	-3	-16.842	22.966	5.768	1.00	0.00
ATOM	18	1HB	PRO	-3	-15.454	23.937	4.252	1.00	0.00
ATOM	19	2HB	PRO	-3	-14.857	22.375	3.687	1.00	0.00
ATOM	20	1HG	PRO	-3	-13.877	24.083	5.931	1.00	0.00
ATOM	21	2HG	PRO	-3	-12.953	23.097	4.782	1.00	0.00
ATOM	22	1HD	PRO	-3	-13.356	22.273	7.291	1.00	0.00
ATOM	23	2HD	PRO	-3	-13.391	21.124	5.934	1.00	0.00
ATOM	24	N	LEU	-2	-16.092	19.953	4.723	1.00	0.00
ATOM	25	CA	LEU	-2	-16.574	18.744	4.050	1.00	0.00
ATOM	30	C	LEU	-2	-16.523	18.883	2.529	1.00	0.00
ATOM	31	O	LEU	-2	-17.466	19.357	1.898	1.00	0.00
ATOM	26	CB	LEU	-2	-17.992	18.380	4.504	1.00	0.00
ATOM	27	CG	LEU	-2	-18.332	16.891	4.416	1.00	0.00
ATOM	28	CD1	LEU	-2	-18.535	16.306	5.805	1.00	0.00
ATOM	29	CD2	LEU	-2	-19.569	16.677	3.558	1.00	0.00
ATOM	32	H	LEU	-2	-15.254	19.904	5.225	1.00	0.00
ATOM	33	HA	LEU	-2	-15.910	17.939	4.334	1.00	0.00
ATOM	34	1HB	LEU	-2	-18.694	18.923	3.891	1.00	0.00
ATOM	35	2HB	LEU	-2	-18.113	18.699	5.529	1.00	0.00
ATOM	36	HG	LEU	-2	-17.508	16.368	3.952	1.00	0.00
ATOM	37	1HD1	LEU	-2	-18.051	15.341	5.864	1.00	0.00
ATOM	38	2HD1	LEU	-2	-19.590	16.192	5.999	1.00	0.00
ATOM	39	3HD1	LEU	-2	-18.104	16.969	6.542	1.00	0.00
ATOM	40	1HD2	LEU	-2	-20.365	17.316	3.908	1.00	0.00
ATOM	41	2HD2	LEU	-2	-19.880	15.644	3.625	1.00	0.00



ATOM	42	3HD2	LEU	-2	-19.340	16.918	2.530	1.00	0.00
ATOM	43	N	GLY	-1	-15.413	18.449	1.949	1.00	0.00
ATOM	44	CA	GLY	-1	-15.246	18.514	0.513	1.00	0.00
ATOM	45	C	GLY	-1	-14.488	17.314	-0.016	1.00	0.00
ATOM	46	O	GLY	-1	-13.303	17.408	-0.339	1.00	0.00
ATOM	47	H	GLY	-1	-14.699	18.072	2.502	1.00	0.00
ATOM	48	1HA	GLY	-1	-14.699	19.411	0.262	1.00	0.00
ATOM	49	2HA	GLY	-1	-16.219	18.552	0.047	1.00	0.00
ATOM	50	N	SER	0	-15.165	16.178	-0.087	1.00	0.00
ATOM	51	CA	SER	0	-14.553	14.947	-0.567	1.00	0.00
ATOM	54	C	SER	0	-15.611	14.027	-1.166	1.00	0.00
ATOM	55	O	SER	0	-16.809	14.224	-0.952	1.00	0.00
ATOM	52	CB	SER	0	-13.816	14.238	0.574	1.00	0.00
ATOM	53	OG	SER	0	-12.832	15.085	1.145	1.00	0.00
ATOM	56	H	SER	0	-16.102	16.160	0.196	1.00	0.00
ATOM	57	HA	SER	0	-13.841	15.210	-1.336	1.00	0.00
ATOM	58	1HB	SER	0	-13.333	13.349	0.193	1.00	0.00
ATOM	59	2HB	SER	0	-14.524	13.963	1.342	1.00	0.00
ATOM	60	HG	SER	0	-12.754	15.885	0.609	1.00	0.00
ATOM	61	N	MET	1	-15.168	13.033	-1.922	1.00	0.00
ATOM	62	CA	MET	1	-16.078	12.091	-2.556	1.00	0.00
ATOM	67	C	MET	1	-15.739	10.662	-2.152	1.00	0.00
ATOM	68	O	MET	1	-14.593	10.233	-2.257	1.00	0.00
ATOM	63	CB	MET	1	-16.002	12.234	-4.076	1.00	0.00
ATOM	64	CG	MET	1	-17.309	11.925	-4.784	1.00	0.00
ATOM	65	SD	MET	1	-17.083	11.616	-6.547	1.00	0.00
ATOM	66	CE	MET	1	-16.529	13.227	-7.104	1.00	0.00
ATOM	69	H	MET	1	-14.203	12.930	-2.059	1.00	0.00
ATOM	70	HA	MET	1	-17.082	12.320	-2.229	1.00	0.00
ATOM	71	1HB	MET	1	-15.248	11.559	-4.452	1.00	0.00
ATOM	72	2HB	MET	1	-15.719	13.248	-4.319	1.00	0.00
ATOM	73	1HG	MET	1	-17.977	12.766	-4.662	1.00	0.00
ATOM	74	2HG	MET	1	-17.748	11.048	-4.332	1.00	0.00
ATOM	75	1HE	MET	1	-17.249	13.638	-7.796	1.00	0.00
ATOM	76	2HE	MET	1	-15.572	13.130	-7.596	1.00	0.00
ATOM	77	3HE	MET	1	-16.430	13.886	-6.254	1.00	0.00
ATOM	78	N	ALA	2	-16.742	9.930	-1.690	1.00	0.00
ATOM	79	CA	ALA	2	-16.550	8.549	-1.275	1.00	0.00
ATOM	81	C	ALA	2	-17.111	7.601	-2.323	1.00	0.00
ATOM	82	O	ALA	2	-18.286	7.685	-2.681	1.00	0.00
ATOM	80	CB	ALA	2	-17.208	8.303	0.076	1.00	0.00
ATOM	83	H	ALA	2	-17.636	10.325	-1.631	1.00	0.00
ATOM	84	HA	ALA	2	-15.487	8.374	-1.175	1.00	0.00
ATOM	85	1HB	ALA	2	-17.315	7.240	0.237	1.00	0.00
ATOM	86	2HB	ALA	2	-18.181	8.769	0.091	1.00	0.00
ATOM	87	3HB	ALA	2	-16.594	8.725	0.860	1.00	0.00
ATOM	88	N	THR	3	-16.267	6.712	-2.825	1.00	0.00
ATOM	89	CA	THR	3	-16.684	5.762	-3.838	1.00	0.00
ATOM	93	C	THR	3	-16.985	4.406	-3.211	1.00	0.00
ATOM	94	O	THR	3	-16.282	3.960	-2.301	1.00	0.00
ATOM	90	CB	THR	3	-15.607	5.595	-4.938	1.00	0.00
ATOM	91	OG1	THR	3	-14.707	4.530	-4.602	1.00	0.00
ATOM	92	CG2	THR	3	-14.819	6.883	-5.139	1.00	0.00
ATOM	95	H	THR	3	-15.341	6.696	-2.510	1.00	0.00
ATOM	96	HA	THR	3	-17.584	6.142	-4.298	1.00	0.00
ATOM	97	HB	THR	3	-16.103	5.352	-5.862	1.00	0.00
ATOM	98	HG1	THR	3	-14.201	4.771	-3.811	1.00	0.00
ATOM	99	1HG2	THR	3	-14.910	7.500	-4.258	1.00	0.00
ATOM	100	2HG2	THR	3	-15.211	7.414	-5.994	1.00	0.00
ATOM	101	3HG2	THR	3	-13.779	6.645	-5.307	1.00	0.00
ATOM	102	N	PRO	4	-18.041	3.732	-3.684	1.00	0.00
ATOM	103	CA	PRO	4	-18.450	2.423	-3.172	1.00	0.00
ATOM	107	C	PRO	4	-17.570	1.291	-3.697	1.00	0.00
ATOM	108	O	PRO	4	-17.826	0.118	-3.430	1.00	0.00
ATOM	104	CB	PRO	4	-19.888	2.257	-3.693	1.00	0.00
ATOM	105	CG	PRO	4	-20.239	3.555	-4.352	1.00	0.00
ATOM	106	CD	PRO	4	-18.938	4.189	-4.746	1.00	0.00
ATOM	109	HA	PRO	4	-18.449	2.404	-2.094	1.00	0.00
ATOM	110	1HB	PRO	4	-20.548	2.049	-2.864	1.00	0.00
ATOM	111	2HB	PRO	4	-19.923	1.439	-4.397	1.00	0.00
ATOM	112	1HG	PRO	4	-20.769	4.190	-3.657	1.00	0.00
ATOM	113	2HG	PRO	4	-20.844	3.370	-5.228	1.00	0.00
ATOM	114	1HD	PRO	4	-19.023	5.265	-4.748	1.00	0.00



ATOM	115	2HD	PRO	4	-18.618	3.827	-5.712	1.00	0.00
ATOM	116	N	ALA	5	-16.539	1.649	-4.448	1.00	0.00
ATOM	117	CA	ALA	5	-15.632	0.664	-5.017	1.00	0.00
ATOM	119	C	ALA	5	-14.258	0.711	-4.354	1.00	0.00
ATOM	120	O	ALA	5	-13.555	-0.298	-4.295	1.00	0.00
ATOM	118	CB	ALA	5	-15.499	0.879	-6.518	1.00	0.00
ATOM	121	H	ALA	5	-16.391	2.601	-4.628	1.00	0.00
ATOM	122	HA	ALA	5	-16.061	-0.313	-4.859	1.00	0.00
ATOM	123	1HB	ALA	5	-15.454	-0.077	-7.016	1.00	0.00
ATOM	124	2HB	ALA	5	-14.595	1.435	-6.724	1.00	0.00
ATOM	125	3HB	ALA	5	-16.351	1.435	-6.880	1.00	0.00
ATOM	126	N	SER	6	-13.870	1.883	-3.865	1.00	0.00
ATOM	127	CA	SER	6	-12.575	2.049	-3.216	1.00	0.00
ATOM	130	C	SER	6	-12.626	3.176	-2.190	1.00	0.00
ATOM	131	O	SER	6	-13.072	4.285	-2.490	1.00	0.00
ATOM	128	CB	SER	6	-11.490	2.345	-4.258	1.00	0.00
ATOM	129	OG	SER	6	-11.391	1.299	-5.211	1.00	0.00
ATOM	132	H	SER	6	-14.464	2.658	-3.946	1.00	0.00
ATOM	133	HA	SER	6	-12.335	1.125	-2.711	1.00	0.00
ATOM	134	1HB	SER	6	-10.536	2.455	-3.761	1.00	0.00
ATOM	135	2HB	SER	6	-11.732	3.263	-4.775	1.00	0.00
ATOM	136	HG	SER	6	-12.059	0.624	-5.013	1.00	0.00
ATOM	137	N	ALA	7	-12.166	2.890	-0.980	1.00	0.00
ATOM	138	CA	ALA	7	-12.155	3.878	0.088	1.00	0.00
ATOM	140	C	ALA	7	-10.996	3.622	1.045	1.00	0.00
ATOM	141	O	ALA	7	-10.915	2.558	1.664	1.00	0.00
ATOM	139	CB	ALA	7	-13.478	3.861	0.842	1.00	0.00
ATOM	142	H	ALA	7	-11.819	1.990	-0.800	1.00	0.00
ATOM	143	HA	ALA	7	-12.032	4.853	-0.359	1.00	0.00
ATOM	144	1HB	ALA	7	-14.263	4.219	0.197	1.00	0.00
ATOM	145	2HB	ALA	7	-13.405	4.497	1.711	1.00	0.00
ATOM	146	3HB	ALA	7	-13.700	2.851	1.155	1.00	0.00
ATOM	147	N	PRO	8	-10.076	4.591	1.178	1.00	0.00
ATOM	148	CA	PRO	8	-8.908	4.478	2.057	1.00	0.00
ATOM	152	C	PRO	8	-9.266	4.721	3.524	1.00	0.00
ATOM	153	O	PRO	8	-8.666	5.562	4.193	1.00	0.00
ATOM	149	CB	PRO	8	-7.957	5.576	1.550	1.00	0.00
ATOM	150	CG	PRO	8	-8.621	6.184	0.354	1.00	0.00
ATOM	151	CD	PRO	8	-10.083	5.876	0.478	1.00	0.00
ATOM	154	HA	PRO	8	-8.433	3.513	1.962	1.00	0.00
ATOM	155	1HB	PRO	8	-7.007	5.135	1.290	1.00	0.00
ATOM	156	2HB	PRO	8	-7.811	6.310	2.331	1.00	0.00
ATOM	157	1HG	PRO	8	-8.223	5.745	-0.548	1.00	0.00
ATOM	158	2HG	PRO	8	-8.465	7.252	0.351	1.00	0.00
ATOM	159	1HD	PRO	8	-10.538	5.782	-0.497	1.00	0.00
ATOM	160	2HD	PRO	8	-10.584	6.635	1.062	1.00	0.00
ATOM	161	N	ASP	9	-10.253	3.983	4.013	1.00	0.00
ATOM	162	CA	ASP	9	-10.702	4.118	5.394	1.00	0.00
ATOM	167	C	ASP	9	-9.933	3.169	6.314	1.00	0.00
ATOM	168	O	ASP	9	-8.823	2.739	5.988	1.00	0.00
ATOM	163	CB	ASP	9	-12.209	3.856	5.490	1.00	0.00
ATOM	164	CG	ASP	9	-12.890	4.747	6.513	1.00	0.00
ATOM	165	OD1	ASP	9	-12.543	4.657	7.705	1.00	0.00
ATOM	166	OD2	ASP	9	-13.773	5.542	6.127	1.00	0.00
ATOM	169	H	ASP	9	-10.695	3.333	3.426	1.00	0.00
ATOM	170	HA	ASP	9	-10.505	5.134	5.704	1.00	0.00
ATOM	171	1HB	ASP	9	-12.371	2.826	5.773	1.00	0.00
ATOM	172	2HB	ASP	9	-12.663	4.036	4.526	1.00	0.00
ATOM	173	N	THR	10	-10.523	2.851	7.462	1.00	0.00
ATOM	174	CA	THR	10	-9.912	1.971	8.449	1.00	0.00
ATOM	178	C	THR	10	-9.526	0.619	7.858	1.00	0.00
ATOM	179	O	THR	10	-8.461	0.092	8.160	1.00	0.00
ATOM	175	CB	THR	10	-10.867	1.747	9.630	1.00	0.00
ATOM	176	OG1	THR	10	-12.212	2.004	9.205	1.00	0.00
ATOM	177	CG2	THR	10	-10.509	2.654	10.798	1.00	0.00
ATOM	180	H	THR	10	-11.408	3.236	7.662	1.00	0.00
ATOM	181	HA	THR	10	-9.022	2.457	8.822	1.00	0.00
ATOM	182	HB	THR	10	-10.789	0.717	9.950	1.00	0.00
ATOM	183	HG1	THR	10	-12.713	2.407	9.936	1.00	0.00
ATOM	184	1HG2	THR	10	-10.554	2.090	11.719	1.00	0.00
ATOM	185	2HG2	THR	10	-11.207	3.475	10.844	1.00	0.00
ATOM	186	3HG2	THR	10	-9.509	3.038	10.661	1.00	0.00
ATOM	187	N	ARG	11	-10.392	0.060	7.019	1.00	0.00



ATOM	188	CA	ARG	11	-10.123	-1.234	6.394	1.00	0.00
ATOM	196	C	ARG	11	-8.866	-1.167	5.536	1.00	0.00
ATOM	197	O	ARG	11	-8.073	-2.106	5.507	1.00	0.00
ATOM	189	CB	ARG	11	-11.318	-1.684	5.546	1.00	0.00
ATOM	190	CG	ARG	11	-11.199	-3.110	5.026	1.00	0.00
ATOM	191	CD	ARG	11	-12.316	-3.444	4.051	1.00	0.00
ATOM	192	NE	ARG	11	-11.804	-3.856	2.742	1.00	0.00
ATOM	193	CZ	ARG	11	-12.561	-4.390	1.779	1.00	0.00
ATOM	194	NH1	ARG	11	-13.856	-4.606	1.984	1.00	0.00
ATOM	195	NH2	ARG	11	-12.015	-4.723	0.618	1.00	0.00
ATOM	198	H	ARG	11	-11.230	0.530	6.818	1.00	0.00
ATOM	199	HA	ARG	11	-9.958	-1.954	7.182	1.00	0.00
ATOM	200	1HB	ARG	11	-11.411	-1.022	4.697	1.00	0.00
ATOM	201	2HB	ARG	11	-12.216	-1.616	6.143	1.00	0.00
ATOM	202	1HG	ARG	11	-11.247	-3.791	5.862	1.00	0.00
ATOM	203	2HG	ARG	11	-10.251	-3.220	4.522	1.00	0.00
ATOM	204	1HD	ARG	11	-12.939	-2.569	3.923	1.00	0.00
ATOM	205	2HD	ARG	11	-12.908	-4.247	4.463	1.00	0.00
ATOM	206	HE	ARG	11	-10.846	-3.725	2.572	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.278	-4.368	2.869	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.422	-5.011	1.260	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.032	-4.576	0.459	1.00	0.00
ATOM	210	2HH2	ARG	11	-12.584	-5.127	-0.113	1.00	0.00
ATOM	211	N	ALA	12	-8.676	-0.045	4.861	1.00	0.00
ATOM	212	CA	ALA	12	-7.505	0.141	4.025	1.00	0.00
ATOM	214	C	ALA	12	-6.278	0.405	4.890	1.00	0.00
ATOM	215	O	ALA	12	-5.177	-0.031	4.568	1.00	0.00
ATOM	213	CB	ALA	12	-7.727	1.279	3.040	1.00	0.00
ATOM	216	H	ALA	12	-9.332	0.680	4.939	1.00	0.00
ATOM	217	HA	ALA	12	-7.348	-0.768	3.463	1.00	0.00
ATOM	218	1HB	ALA	12	-7.735	2.220	3.573	1.00	0.00
ATOM	219	2HB	ALA	12	-8.672	1.140	2.538	1.00	0.00
ATOM	220	3HB	ALA	12	-6.929	1.286	2.312	1.00	0.00
ATOM	221	N	LEU	13	-6.476	1.120	5.992	1.00	0.00
ATOM	222	CA	LEU	13	-5.376	1.437	6.896	1.00	0.00
ATOM	227	C	LEU	13	-4.945	0.212	7.705	1.00	0.00
ATOM	228	O	LEU	13	-3.753	-0.030	7.876	1.00	0.00
ATOM	223	CB	LEU	13	-5.760	2.584	7.831	1.00	0.00
ATOM	224	CG	LEU	13	-4.835	2.778	9.031	1.00	0.00
ATOM	225	CD1	LEU	13	-3.680	3.703	8.677	1.00	0.00
ATOM	226	CD2	LEU	13	-5.619	3.323	10.210	1.00	0.00
ATOM	229	H	LEU	13	-7.384	1.446	6.201	1.00	0.00
ATOM	230	HA	LEU	13	-4.541	1.752	6.289	1.00	0.00
ATOM	231	1HB	LEU	13	-6.756	2.406	8.202	1.00	0.00
ATOM	232	2HB	LEU	13	-5.765	3.500	7.255	1.00	0.00
ATOM	233	HG	LEU	13	-4.422	1.823	9.317	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.271	3.418	7.719	1.00	0.00
ATOM	235	2HD1	LEU	13	-2.913	3.627	9.434	1.00	0.00
ATOM	236	3HD1	LEU	13	-4.038	4.722	8.627	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.596	2.863	10.238	1.00	0.00
ATOM	238	2HD2	LEU	13	-5.728	4.393	10.108	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.092	3.102	11.126	1.00	0.00
ATOM	240	N	VAL	14	-5.910	-0.567	8.196	1.00	0.00
ATOM	241	CA	VAL	14	-5.589	-1.760	8.972	1.00	0.00
ATOM	245	C	VAL	14	-4.860	-2.768	8.088	1.00	0.00
ATOM	246	O	VAL	14	-3.937	-3.451	8.533	1.00	0.00
ATOM	242	CB	VAL	14	-6.847	-2.407	9.624	1.00	0.00
ATOM	243	CG1	VAL	14	-7.719	-3.130	8.604	1.00	0.00
ATOM	244	CG2	VAL	14	-6.440	-3.356	10.744	1.00	0.00
ATOM	247	H	VAL	14	-6.851	-0.333	8.031	1.00	0.00
ATOM	248	HA	VAL	14	-4.918	-1.457	9.766	1.00	0.00
ATOM	249	HB	VAL	14	-7.442	-1.620	10.063	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.457	-4.178	8.584	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.561	-2.701	7.626	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.758	-3.025	8.880	1.00	0.00
ATOM	253	1HG2	VAL	14	-6.118	-2.785	11.602	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.629	-3.986	10.406	1.00	0.00
ATOM	255	3HG2	VAL	14	-7.284	-3.972	11.018	1.00	0.00
ATOM	256	N	ALA	15	-5.261	-2.827	6.820	1.00	0.00
ATOM	257	CA	ALA	15	-4.627	-3.720	5.863	1.00	0.00
ATOM	259	C	ALA	15	-3.248	-3.193	5.480	1.00	0.00
ATOM	260	O	ALA	15	-2.368	-3.956	5.090	1.00	0.00
ATOM	258	CB	ALA	15	-5.498	-3.881	4.626	1.00	0.00



ATOM	261	H	ALA	15	-5.993	-2.241	6.520	1.00	0.00
ATOM	262	HA	ALA	15	-4.517	-4.689	6.329	1.00	0.00
ATOM	263	1HB	ALA	15	-4.970	-3.503	3.763	1.00	0.00
ATOM	264	2HB	ALA	15	-6.416	-3.327	4.757	1.00	0.00
ATOM	265	3HB	ALA	15	-5.726	-4.927	4.480	1.00	0.00
ATOM	266	N	ASP	16	-3.078	-1.882	5.607	1.00	0.00
ATOM	267	CA	ASP	16	-1.814	-1.221	5.287	1.00	0.00
ATOM	272	C	ASP	16	-0.773	-1.485	6.367	1.00	0.00
ATOM	273	O	ASP	16	0.233	-2.139	6.116	1.00	0.00
ATOM	268	CB	ASP	16	-2.037	0.289	5.128	1.00	0.00
ATOM	269	CG	ASP	16	-0.797	1.137	5.399	1.00	0.00
ATOM	270	OD1	ASP	16	0.220	0.960	4.702	1.00	0.00
ATOM	271	OD2	ASP	16	-0.867	2.020	6.285	1.00	0.00
ATOM	274	H	ASP	16	-3.824	-1.336	5.928	1.00	0.00
ATOM	275	HA	ASP	16	-1.457	-1.623	4.353	1.00	0.00
ATOM	276	1HB	ASP	16	-2.814	0.598	5.812	1.00	0.00
ATOM	277	2HB	ASP	16	-2.363	0.488	4.118	1.00	0.00
ATOM	278	N	PHE	17	-1.025	-0.967	7.563	1.00	0.00
ATOM	279	CA	PHE	17	-0.107	-1.127	8.683	1.00	0.00
ATOM	287	C	PHE	17	0.210	-2.589	8.964	1.00	0.00
ATOM	288	O	PHE	17	1.376	-2.977	9.002	1.00	0.00
ATOM	280	CB	PHE	17	-0.670	-0.475	9.944	1.00	0.00
ATOM	281	CG	PHE	17	0.400	-0.106	10.933	1.00	0.00
ATOM	282	CD1	PHE	17	1.541	0.569	10.524	1.00	0.00
ATOM	283	CD2	PHE	17	0.272	-0.450	12.268	1.00	0.00
ATOM	284	CE1	PHE	17	2.530	0.895	11.430	1.00	0.00
ATOM	285	CE2	PHE	17	1.261	-0.127	13.178	1.00	0.00
ATOM	286	CZ	PHE	17	2.390	0.546	12.759	1.00	0.00
ATOM	289	H	PHE	17	-1.848	-0.447	7.690	1.00	0.00
ATOM	290	HA	PHE	17	0.813	-0.626	8.422	1.00	0.00
ATOM	291	1HB	PHE	17	-1.349	-1.162	10.426	1.00	0.00
ATOM	292	2HB	PHE	17	-1.202	0.424	9.673	1.00	0.00
ATOM	293	HD1	PHE	17	-0.612	-0.976	12.598	1.00	0.00
ATOM	294	HD2	PHE	17	1.650	0.842	9.485	1.00	0.00
ATOM	295	HE1	PHE	17	1.149	-0.401	14.216	1.00	0.00
ATOM	296	HE2	PHE	17	3.413	1.422	11.099	1.00	0.00
ATOM	297	HZ	PHE	17	3.164	0.799	13.469	1.00	0.00
ATOM	298	N	VAL	18	-0.821	-3.396	9.167	1.00	0.00
ATOM	299	CA	VAL	18	-0.625	-4.810	9.453	1.00	0.00
ATOM	303	C	VAL	18	-0.059	-5.529	8.232	1.00	0.00
ATOM	304	O	VAL	18	0.803	-6.396	8.358	1.00	0.00
ATOM	300	CB	VAL	18	-1.939	-5.489	9.903	1.00	0.00
ATOM	301	CG1	VAL	18	-1.721	-6.964	10.205	1.00	0.00
ATOM	302	CG2	VAL	18	-2.516	-4.776	11.120	1.00	0.00
ATOM	305	H	VAL	18	-1.733	-3.032	9.129	1.00	0.00
ATOM	306	HA	VAL	18	0.093	-4.888	10.262	1.00	0.00
ATOM	307	HB	VAL	18	-2.655	-5.413	9.098	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.692	-7.225	10.002	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.371	-7.560	9.581	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.944	-7.158	11.244	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.493	-5.440	11.971	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.537	-4.486	10.916	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.927	-3.897	11.333	1.00	0.00
ATOM	314	N	GLY	19	-0.528	-5.148	7.054	1.00	0.00
ATOM	315	CA	GLY	19	-0.041	-5.754	5.833	1.00	0.00
ATOM	316	C	GLY	19	1.436	-5.497	5.625	1.00	0.00
ATOM	317	O	GLY	19	2.214	-6.430	5.462	1.00	0.00
ATOM	318	H	GLY	19	-1.199	-4.435	7.010	1.00	0.00
ATOM	319	1HA	GLY	19	-0.590	-5.350	4.996	1.00	0.00
ATOM	320	2HA	GLY	19	-0.209	-6.822	5.880	1.00	0.00
ATOM	321	N	TYR	20	1.810	-4.225	5.631	1.00	0.00
ATOM	322	CA	TYR	20	3.194	-3.809	5.449	1.00	0.00
ATOM	331	C	TYR	20	4.084	-4.392	6.541	1.00	0.00
ATOM	332	O	TYR	20	5.183	-4.853	6.267	1.00	0.00
ATOM	323	CB	TYR	20	3.294	-2.279	5.465	1.00	0.00
ATOM	324	CG	TYR	20	4.510	-1.729	4.745	1.00	0.00
ATOM	325	CD1	TYR	20	5.773	-1.801	5.319	1.00	0.00
ATOM	326	CD2	TYR	20	4.393	-1.137	3.493	1.00	0.00
ATOM	327	CE1	TYR	20	6.883	-1.301	4.668	1.00	0.00
ATOM	328	CE2	TYR	20	5.501	-0.633	2.835	1.00	0.00
ATOM	329	CZ	TYR	20	6.744	-0.720	3.427	1.00	0.00
ATOM	330	OH	TYR	20	7.852	-0.225	2.779	1.00	0.00
ATOM	333	H	TYR	20	1.124	-3.533	5.760	1.00	0.00



ATOM	334	HA	TYR	20	3.524	-4.173	4.486	1.00	0.00
ATOM	335	1HB	TYR	20	3.336	-1.941	6.491	1.00	0.00
ATOM	336	2HB	TYR	20	2.418	-1.863	4.993	1.00	0.00
ATOM	337	HD1	TYR	20	5.882	-2.257	6.292	1.00	0.00
ATOM	338	HD2	TYR	20	3.420	-1.069	3.033	1.00	0.00
ATOM	339	HE1	TYR	20	7.858	-1.368	5.133	1.00	0.00
ATOM	340	HE2	TYR	20	5.391	-0.177	1.862	1.00	0.00
ATOM	341	HH	TYR	20	7.599	0.518	2.221	1.00	0.00
ATOM	342	N	LYS	21	3.594	-4.361	7.777	1.00	0.00
ATOM	343	CA	LYS	21	4.340	-4.877	8.921	1.00	0.00
ATOM	349	C	LYS	21	4.595	-6.376	8.785	1.00	0.00
ATOM	350	O	LYS	21	5.706	-6.850	9.029	1.00	0.00
ATOM	344	CB	LYS	21	3.581	-4.595	10.220	1.00	0.00
ATOM	345	CG	LYS	21	4.219	-3.514	11.080	1.00	0.00
ATOM	346	CD	LYS	21	5.568	-3.950	11.633	1.00	0.00
ATOM	347	CE	LYS	21	6.646	-2.911	11.354	1.00	0.00
ATOM	348	NZ	LYS	21	6.689	-1.852	12.400	1.00	0.00
ATOM	351	H	LYS	21	2.703	-3.974	7.925	1.00	0.00
ATOM	352	HA	LYS	21	5.289	-4.365	8.954	1.00	0.00
ATOM	353	1HB	LYS	21	3.521	-5.504	10.800	1.00	0.00
ATOM	354	2HB	LYS	21	2.579	-4.276	9.970	1.00	0.00
ATOM	355	1HG	LYS	21	3.557	-3.291	11.905	1.00	0.00
ATOM	356	2HG	LYS	21	4.360	-2.628	10.480	1.00	0.00
ATOM	357	1HD	LYS	21	5.853	-4.883	11.170	1.00	0.00
ATOM	358	2HD	LYS	21	5.483	-4.087	12.701	1.00	0.00
ATOM	359	1HE	LYS	21	6.444	-2.452	10.397	1.00	0.00
ATOM	360	2HE	LYS	21	7.605	-3.405	11.319	1.00	0.00
ATOM	361	1HZ	LYS	21	5.805	-1.308	12.398	1.00	0.00
ATOM	362	2HZ	LYS	21	7.483	-1.205	12.223	1.00	0.00
ATOM	363	3HZ	LYS	21	6.817	-2.281	13.349	1.00	0.00
ATOM	364	N	LEU	22	3.565	-7.114	8.392	1.00	0.00
ATOM	365	CA	LEU	22	3.681	-8.556	8.219	1.00	0.00
ATOM	370	C	LEU	22	4.527	-8.867	6.994	1.00	0.00
ATOM	371	O	LEU	22	5.400	-9.726	7.036	1.00	0.00
ATOM	366	CB	LEU	22	2.300	-9.203	8.073	1.00	0.00
ATOM	367	CG	LEU	22	1.657	-9.693	9.374	1.00	0.00
ATOM	368	CD1	LEU	22	1.645	-8.595	10.423	1.00	0.00
ATOM	369	CD2	LEU	22	0.247	-10.184	9.102	1.00	0.00
ATOM	372	H	LEU	22	2.705	-6.677	8.209	1.00	0.00
ATOM	373	HA	LEU	22	4.169	-8.959	9.094	1.00	0.00
ATOM	374	1HB	LEU	22	2.391	-10.046	7.406	1.00	0.00
ATOM	375	2HB	LEU	22	1.634	-8.481	7.620	1.00	0.00
ATOM	376	HG	LEU	22	2.227	-10.522	9.769	1.00	0.00
ATOM	377	1HD1	LEU	22	0.636	-8.239	10.560	1.00	0.00
ATOM	378	2HD1	LEU	22	2.274	-7.780	10.097	1.00	0.00
ATOM	379	3HD1	LEU	22	2.019	-8.987	11.357	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.455	-9.390	9.307	1.00	0.00
ATOM	381	2HD2	LEU	22	0.032	-11.029	9.739	1.00	0.00
ATOM	382	3HD2	LEU	22	0.163	-10.482	8.067	1.00	0.00
ATOM	383	N	ARG	23	4.265	-8.146	5.908	1.00	0.00
ATOM	384	CA	ARG	23	4.997	-8.324	4.657	1.00	0.00
ATOM	392	C	ARG	23	6.455	-7.873	4.818	1.00	0.00
ATOM	393	O	ARG	23	7.309	-8.173	3.983	1.00	0.00
ATOM	385	CB	ARG	23	4.288	-7.555	3.525	1.00	0.00
ATOM	386	CG	ARG	23	4.835	-7.822	2.134	1.00	0.00
ATOM	387	CD	ARG	23	4.078	-7.017	1.086	1.00	0.00
ATOM	388	NE	ARG	23	4.803	-5.810	0.678	1.00	0.00
ATOM	389	CZ	ARG	23	5.606	-5.729	-0.388	1.00	0.00
ATOM	390	NH1	ARG	23	5.850	-6.802	-1.127	1.00	0.00
ATOM	391	NH2	ARG	23	6.171	-4.569	-0.701	1.00	0.00
ATOM	394	H	ARG	23	3.555	-7.466	5.952	1.00	0.00
ATOM	395	HA	ARG	23	4.990	-9.378	4.421	1.00	0.00
ATOM	396	1HB	ARG	23	4.359	-6.498	3.713	1.00	0.00
ATOM	397	2HB	ARG	23	3.246	-7.832	3.528	1.00	0.00
ATOM	398	1HG	ARG	23	4.733	-8.874	1.913	1.00	0.00
ATOM	399	2HG	ARG	23	5.878	-7.544	2.107	1.00	0.00
ATOM	400	1HD	ARG	23	3.112	-6.720	1.498	1.00	0.00
ATOM	401	2HD	ARG	23	3.920	-7.640	0.218	1.00	0.00
ATOM	402	HE	ARG	23	4.661	-4.998	1.220	1.00	0.00
ATOM	403	1HH1	ARG	23	5.439	-7.682	-0.891	1.00	0.00
ATOM	404	2HH1	ARG	23	6.449	-6.736	-1.937	1.00	0.00
ATOM	405	1HH2	ARG	23	5.999	-3.755	-0.141	1.00	0.00
ATOM	406	2HH2	ARG	23	6.778	-4.499	-1.508	1.00	0.00



ATOM	407	N	GLN	24	6.728	-7.174	5.914	1.00	0.00
ATOM	408	CA	GLN	24	8.071	-6.696	6.219	1.00	0.00
ATOM	414	C	GLN	24	8.875	-7.790	6.914	1.00	0.00
ATOM	415	O	GLN	24	10.074	-7.934	6.683	1.00	0.00
ATOM	409	CB	GLN	24	8.008	-5.466	7.132	1.00	0.00
ATOM	410	CG	GLN	24	8.601	-4.207	6.520	1.00	0.00
ATOM	411	CD	GLN	24	8.609	-3.033	7.487	1.00	0.00
ATOM	412	OE1	GLN	24	7.606	-2.738	8.140	1.00	0.00
ATOM	413	NE2	GLN	24	9.742	-2.355	7.588	1.00	0.00
ATOM	416	H	GLN	24	6.003	-6.983	6.546	1.00	0.00
ATOM	417	HA	GLN	24	8.556	-6.430	5.292	1.00	0.00
ATOM	418	1HB	GLN	24	8.545	-5.685	8.043	1.00	0.00
ATOM	419	2HB	GLN	24	6.974	-5.269	7.373	1.00	0.00
ATOM	420	1HG	GLN	24	8.017	-3.935	5.652	1.00	0.00
ATOM	421	2HG	GLN	24	9.618	-4.412	6.220	1.00	0.00
ATOM	422	1HE2	GLN	24	10.505	-2.644	7.044	1.00	0.00
ATOM	423	2HE2	GLN	24	9.773	-1.589	8.204	1.00	0.00
ATOM	424	N	LYS	25	8.205	-8.554	7.775	1.00	0.00
ATOM	425	CA	LYS	25	8.859	-9.627	8.513	1.00	0.00
ATOM	431	C	LYS	25	7.857	-10.709	8.917	1.00	0.00
ATOM	432	O	LYS	25	7.345	-10.715	10.040	1.00	0.00
ATOM	426	CB	LYS	25	9.572	-9.083	9.761	1.00	0.00
ATOM	427	CG	LYS	25	8.911	-7.861	10.384	1.00	0.00
ATOM	428	CD	LYS	25	9.879	-7.109	11.285	1.00	0.00
ATOM	429	CE	LYS	25	9.189	-5.979	12.034	1.00	0.00
ATOM	430	NZ	LYS	25	9.935	-5.583	13.260	1.00	0.00
ATOM	433	H	LYS	25	7.246	-8.386	7.921	1.00	0.00
ATOM	434	HA	LYS	25	9.595	-10.071	7.859	1.00	0.00
ATOM	435	1HB	LYS	25	10.586	-8.815	9.493	1.00	0.00
ATOM	436	2HB	LYS	25	9.605	-9.863	10.506	1.00	0.00
ATOM	437	1HG	LYS	25	8.061	-8.181	10.971	1.00	0.00
ATOM	438	2HG	LYS	25	8.579	-7.201	9.597	1.00	0.00
ATOM	439	1HD	LYS	25	10.673	-6.696	10.678	1.00	0.00
ATOM	440	2HD	LYS	25	10.297	-7.798	12.003	1.00	0.00
ATOM	441	1HE	LYS	25	8.197	-6.303	12.314	1.00	0.00
ATOM	442	2HE	LYS	25	9.115	-5.123	11.379	1.00	0.00
ATOM	443	1HZ	LYS	25	10.963	-5.708	13.113	1.00	0.00
ATOM	444	2HZ	LYS	25	9.641	-6.172	14.062	1.00	0.00
ATOM	445	3HZ	LYS	25	9.746	-4.578	13.493	1.00	0.00
ATOM	446	N	GLY	26	7.582	-11.622	7.997	1.00	0.00
ATOM	447	CA	GLY	26	6.650	-12.697	8.281	1.00	0.00
ATOM	448	C	GLY	26	5.889	-13.148	7.054	1.00	0.00
ATOM	449	O	GLY	26	6.100	-14.247	6.544	1.00	0.00
ATOM	450	H	GLY	26	8.017	-11.568	7.121	1.00	0.00
ATOM	451	1HA	GLY	26	5.942	-12.355	9.022	1.00	0.00
ATOM	452	2HA	GLY	26	7.192	-13.536	8.681	1.00	0.00
ATOM	453	N	TYR	27	5.013	-12.289	6.572	1.00	0.00
ATOM	454	CA	TYR	27	4.215	-12.582	5.392	1.00	0.00
ATOM	463	C	TYR	27	4.835	-11.931	4.163	1.00	0.00
ATOM	464	O	TYR	27	4.182	-11.174	3.443	1.00	0.00
ATOM	455	CB	TYR	27	2.774	-12.098	5.589	1.00	0.00
ATOM	456	CG	TYR	27	1.755	-12.850	4.757	1.00	0.00
ATOM	457	CD1	TYR	27	1.899	-14.208	4.504	1.00	0.00
ATOM	458	CD2	TYR	27	0.647	-12.198	4.228	1.00	0.00
ATOM	459	CE1	TYR	27	0.970	-14.896	3.747	1.00	0.00
ATOM	460	CE2	TYR	27	-0.288	-12.880	3.470	1.00	0.00
ATOM	461	CZ	TYR	27	-0.121	-14.229	3.232	1.00	0.00
ATOM	462	OH	TYR	27	-1.048	-14.915	2.477	1.00	0.00
ATOM	465	H	TYR	27	4.908	-11.419	7.018	1.00	0.00
ATOM	466	HA	TYR	27	4.211	-13.653	5.251	1.00	0.00
ATOM	467	1HB	TYR	27	2.714	-11.054	5.324	1.00	0.00
ATOM	468	2HB	TYR	27	2.503	-12.217	6.627	1.00	0.00
ATOM	469	HD1	TYR	27	0.520	-11.143	4.414	1.00	0.00
ATOM	470	HD2	TYR	27	2.754	-14.729	4.909	1.00	0.00
ATOM	471	HE1	TYR	27	-1.142	-12.357	3.068	1.00	0.00
ATOM	472	HE2	TYR	27	1.101	-15.952	3.562	1.00	0.00
ATOM	473	HH	TYR	27	-1.271	-15.744	2.924	1.00	0.00
ATOM	474	N	VAL	28	6.104	-12.232	3.930	1.00	0.00
ATOM	475	CA	VAL	28	6.817	-11.677	2.791	1.00	0.00
ATOM	479	C	VAL	28	6.440	-12.429	1.516	1.00	0.00
ATOM	480	O	VAL	28	6.468	-11.871	0.420	1.00	0.00
ATOM	476	CB	VAL	28	8.350	-11.709	3.009	1.00	0.00
ATOM	477	CG1	VAL	28	8.885	-13.135	3.010	1.00	0.00



ATOM	478	CG2	VAL	28	9.058	-10.869	1.959	1.00	0.00
ATOM	481	H	VAL	28	6.571	-12.840	4.541	1.00	0.00
ATOM	482	HA	VAL	28	6.513	-10.646	2.684	1.00	0.00
ATOM	483	HB	VAL	28	8.557	-11.277	3.978	1.00	0.00
ATOM	484	1HG1	VAL	28	8.069	-13.824	2.851	1.00	0.00
ATOM	485	2HG1	VAL	28	9.353	-13.344	3.962	1.00	0.00
ATOM	486	3HG1	VAL	28	9.611	-13.246	2.219	1.00	0.00
ATOM	487	1HG2	VAL	28	9.422	-11.512	1.171	1.00	0.00
ATOM	488	2HG2	VAL	28	9.888	-10.348	2.413	1.00	0.00
ATOM	489	3HG2	VAL	28	8.365	-10.152	1.547	1.00	0.00
ATOM	490	N	CYS	29	6.053	-13.691	1.679	1.00	0.00
ATOM	491	CA	CYS	29	5.633	-14.517	0.557	1.00	0.00
ATOM	494	C	CYS	29	4.311	-13.994	0.017	1.00	0.00
ATOM	495	O	CYS	29	4.093	-13.930	-1.191	1.00	0.00
ATOM	492	CB	CYS	29	5.481	-15.971	1.005	1.00	0.00
ATOM	493	SG	CYS	29	5.841	-16.239	2.758	1.00	0.00
ATOM	496	H	CYS	29	6.030	-14.070	2.581	1.00	0.00
ATOM	497	HA	CYS	29	6.385	-14.453	-0.215	1.00	0.00
ATOM	498	1HB	CYS	29	6.153	-16.587	0.433	1.00	0.00
ATOM	499	2HB	CYS	29	4.464	-16.293	0.826	1.00	0.00
ATOM	500	HG	CYS	29	5.813	-17.546	2.982	1.00	0.00
ATOM	501	N	GLY	30	3.449	-13.585	0.936	1.00	0.00
ATOM	502	CA	GLY	30	2.164	-13.033	0.566	1.00	0.00
ATOM	503	C	GLY	30	2.262	-11.545	0.309	1.00	0.00
ATOM	504	O	GLY	30	1.579	-10.743	0.946	1.00	0.00
ATOM	505	H	GLY	30	3.700	-13.639	1.879	1.00	0.00
ATOM	506	1HA	GLY	30	1.465	-13.203	1.364	1.00	0.00
ATOM	507	2HA	GLY	30	1.809	-13.525	-0.328	1.00	0.00
ATOM	508	N	ALA	31	3.130	-11.188	-0.621	1.00	0.00
ATOM	509	CA	ALA	31	3.351	-9.800	-0.984	1.00	0.00
ATOM	511	C	ALA	31	2.103	-9.215	-1.630	1.00	0.00
ATOM	512	O	ALA	31	1.730	-9.607	-2.735	1.00	0.00
ATOM	510	CB	ALA	31	4.540	-9.689	-1.924	1.00	0.00
ATOM	513	H	ALA	31	3.643	-11.891	-1.077	1.00	0.00
ATOM	514	HA	ALA	31	3.575	-9.248	-0.083	1.00	0.00
ATOM	515	1HB	ALA	31	5.158	-8.856	-1.624	1.00	0.00
ATOM	516	2HB	ALA	31	4.187	-9.532	-2.933	1.00	0.00
ATOM	517	3HB	ALA	31	5.118	-10.600	-1.882	1.00	0.00
ATOM	518	N	GLY	32	1.446	-8.295	-0.935	1.00	0.00
ATOM	519	CA	GLY	32	0.233	-7.708	-1.478	1.00	0.00
ATOM	520	C	GLY	32	-0.415	-6.679	-0.565	1.00	0.00
ATOM	521	O	GLY	32	-0.669	-5.560	-0.998	1.00	0.00
ATOM	522	H	GLY	32	1.775	-8.026	-0.047	1.00	0.00
ATOM	523	1HA	GLY	32	-0.478	-8.500	-1.665	1.00	0.00
ATOM	524	2HA	GLY	32	0.472	-7.232	-2.418	1.00	0.00
ATOM	525	N	PRO	33	-0.704	-7.011	0.709	1.00	0.00
ATOM	526	CA	PRO	33	-1.338	-6.066	1.634	1.00	0.00
ATOM	530	C	PRO	33	-0.429	-4.884	1.923	1.00	0.00
ATOM	531	O	PRO	33	-0.834	-3.729	1.831	1.00	0.00
ATOM	527	CB	PRO	33	-1.574	-6.896	2.901	1.00	0.00
ATOM	528	CG	PRO	33	-1.465	-8.316	2.459	1.00	0.00
ATOM	529	CD	PRO	33	-0.450	-8.307	1.355	1.00	0.00
ATOM	532	HA	PRO	33	-2.281	-5.705	1.250	1.00	0.00
ATOM	533	1HB	PRO	33	-2.555	-6.681	3.294	1.00	0.00
ATOM	534	2HB	PRO	33	-0.824	-6.653	3.638	1.00	0.00
ATOM	535	1HG	PRO	33	-2.419	-8.665	2.093	1.00	0.00
ATOM	536	2HG	PRO	33	-1.125	-8.931	3.279	1.00	0.00
ATOM	537	1HD	PRO	33	-0.612	-9.120	0.670	1.00	0.00
ATOM	538	2HD	PRO	33	0.548	-8.348	1.762	1.00	0.00
ATOM	539	N	GLY	34	0.813	-5.192	2.251	1.00	0.00
ATOM	540	CA	GLY	34	1.784	-4.162	2.536	1.00	0.00
ATOM	541	C	GLY	34	2.583	-3.775	1.316	1.00	0.00
ATOM	542	O	GLY	34	3.754	-3.412	1.427	1.00	0.00
ATOM	543	H	GLY	34	1.073	-6.132	2.292	1.00	0.00
ATOM	544	1HA	GLY	34	2.462	-4.525	3.293	1.00	0.00
ATOM	545	2HA	GLY	34	1.276	-3.290	2.914	1.00	0.00
ATOM	546	N	GLU	35	1.966	-3.861	0.144	1.00	0.00
ATOM	547	CA	GLU	35	2.654	-3.512	-1.087	1.00	0.00
ATOM	553	C	GLU	35	2.595	-2.003	-1.307	1.00	0.00
ATOM	554	O	GLU	35	3.407	-1.436	-2.035	1.00	0.00
ATOM	548	CB	GLU	35	2.070	-4.276	-2.283	1.00	0.00
ATOM	549	CG	GLU	35	0.866	-3.615	-2.940	1.00	0.00
ATOM	550	CD	GLU	35	0.272	-4.465	-4.045	1.00	0.00



ATOM	551	OE1	GLU	35	1.045	-5.073	-4.813	1.00	0.00
ATOM	552	OE2	GLU	35	-0.968	-4.529	-4.149	1.00	0.00
ATOM	555	H	GLU	35	1.032	-4.165	0.110	1.00	0.00
ATOM	556	HA	GLU	35	3.688	-3.802	-0.962	1.00	0.00
ATOM	557	1HB	GLU	35	1.772	-5.261	-1.950	1.00	0.00
ATOM	558	2HB	GLU	35	2.840	-4.382	-3.032	1.00	0.00
ATOM	559	1HG	GLU	35	1.176	-2.669	-3.360	1.00	0.00
ATOM	560	2HG	GLU	35	0.109	-3.445	-2.189	1.00	0.00
ATOM	561	N	GLY	36	1.644	-1.360	-0.641	1.00	0.00
ATOM	562	CA	GLY	36	1.503	0.075	-0.737	1.00	0.00
ATOM	563	C	GLY	36	2.024	0.745	0.512	1.00	0.00
ATOM	564	O	GLY	36	1.727	0.299	1.617	1.00	0.00
ATOM	565	H	GLY	36	1.044	-1.866	-0.053	1.00	0.00
ATOM	566	1HA	GLY	36	0.460	0.323	-0.861	1.00	0.00
ATOM	567	2HA	GLY	36	2.060	0.430	-1.593	1.00	0.00
ATOM	568	N	PRO	37	2.840	1.795	0.376	1.00	0.00
ATOM	569	CA	PRO	37	3.423	2.487	1.514	1.00	0.00
ATOM	573	C	PRO	37	2.584	3.665	2.020	1.00	0.00
ATOM	574	O	PRO	37	1.349	3.651	1.965	1.00	0.00
ATOM	570	CB	PRO	37	4.753	2.972	0.941	1.00	0.00
ATOM	571	CG	PRO	37	4.488	3.215	-0.512	1.00	0.00
ATOM	572	CD	PRO	37	3.294	2.369	-0.897	1.00	0.00
ATOM	575	HA	PRO	37	3.614	1.808	2.331	1.00	0.00
ATOM	576	1HB	PRO	37	5.507	2.212	1.081	1.00	0.00
ATOM	577	2HB	PRO	37	5.054	3.880	1.444	1.00	0.00
ATOM	578	1HG	PRO	37	5.351	2.924	-1.091	1.00	0.00
ATOM	579	2HG	PRO	37	4.269	4.260	-0.672	1.00	0.00
ATOM	580	1HD	PRO	37	3.592	1.592	-1.585	1.00	0.00
ATOM	581	2HD	PRO	37	2.523	2.986	-1.335	1.00	0.00
ATOM	582	N	ALA	38	3.272	4.682	2.522	1.00	0.00
ATOM	583	CA	ALA	38	2.635	5.873	3.061	1.00	0.00
ATOM	585	C	ALA	38	2.105	6.784	1.955	1.00	0.00
ATOM	586	O	ALA	38	2.704	7.812	1.647	1.00	0.00
ATOM	584	CB	ALA	38	3.633	6.619	3.930	1.00	0.00
ATOM	587	H	ALA	38	4.251	4.625	2.537	1.00	0.00
ATOM	588	HA	ALA	38	1.811	5.563	3.688	1.00	0.00
ATOM	589	1HB	ALA	38	4.193	7.313	3.320	1.00	0.00
ATOM	590	2HB	ALA	38	4.313	5.915	4.386	1.00	0.00
ATOM	591	3HB	ALA	38	3.105	7.161	4.701	1.00	0.00
ATOM	592	N	ALA	39	0.983	6.405	1.360	1.00	0.00
ATOM	593	CA	ALA	39	0.387	7.193	0.287	1.00	0.00
ATOM	595	C	ALA	39	-1.061	7.555	0.604	1.00	0.00
ATOM	596	O	ALA	39	-1.888	7.685	-0.295	1.00	0.00
ATOM	594	CB	ALA	39	0.468	6.432	-1.030	1.00	0.00
ATOM	597	H	ALA	39	0.547	5.570	1.642	1.00	0.00
ATOM	598	HA	ALA	39	0.960	8.103	0.185	1.00	0.00
ATOM	599	1HB	ALA	39	0.386	7.128	-1.852	1.00	0.00
ATOM	600	2HB	ALA	39	-0.337	5.716	-1.082	1.00	0.00
ATOM	601	3HB	ALA	39	1.414	5.915	-1.087	1.00	0.00
ATOM	602	N	ASP	40	-1.359	7.730	1.886	1.00	0.00
ATOM	603	CA	ASP	40	-2.702	8.090	2.322	1.00	0.00
ATOM	608	C	ASP	40	-2.619	9.074	3.483	1.00	0.00
ATOM	609	O	ASP	40	-1.571	9.191	4.124	1.00	0.00
ATOM	604	CB	ASP	40	-3.495	6.857	2.761	1.00	0.00
ATOM	605	CG	ASP	40	-4.168	6.138	1.608	1.00	0.00
ATOM	606	OD1	ASP	40	-4.750	6.820	0.742	1.00	0.00
ATOM	607	OD2	ASP	40	-4.120	4.889	1.576	1.00	0.00
ATOM	610	H	ASP	40	-0.657	7.631	2.554	1.00	0.00
ATOM	611	HA	ASP	40	-3.209	8.563	1.494	1.00	0.00
ATOM	612	1HB	ASP	40	-4.261	7.178	3.452	1.00	0.00
ATOM	613	2HB	ASP	40	-2.832	6.167	3.258	1.00	0.00
ATOM	614	N	PRO	41	-3.724	9.772	3.787	1.00	0.00
ATOM	615	CA	PRO	41	-3.785	10.741	4.882	1.00	0.00
ATOM	619	C	PRO	41	-3.990	10.072	6.237	1.00	0.00
ATOM	620	O	PRO	41	-4.845	10.471	7.028	1.00	0.00
ATOM	616	CB	PRO	41	-4.981	11.619	4.509	1.00	0.00
ATOM	617	CG	PRO	41	-5.863	10.762	3.655	1.00	0.00
ATOM	618	CD	PRO	41	-5.013	9.645	3.093	1.00	0.00
ATOM	621	HA	PRO	41	-2.890	11.347	4.918	1.00	0.00
ATOM	622	1HB	PRO	41	-4.634	12.485	3.966	1.00	0.00
ATOM	623	2HB	PRO	41	-5.491	11.933	5.406	1.00	0.00
ATOM	624	1HG	PRO	41	-6.273	11.355	2.850	1.00	0.00
ATOM	625	2HG	PRO	41	-6.661	10.351	4.255	1.00	0.00



ATOM	626	1HD	PRO	41	-4.884	9.756	2.031	1.00	0.00
ATOM	627	2HD	PRO	41	-5.462	8.688	3.313	1.00	0.00
ATOM	628	N	LEU	42	-3.181	9.050	6.484	1.00	0.00
ATOM	629	CA	LEU	42	-3.209	8.282	7.724	1.00	0.00
ATOM	634	C	LEU	42	-2.105	7.240	7.683	1.00	0.00
ATOM	635	O	LEU	42	-1.550	6.861	8.710	1.00	0.00
ATOM	630	CB	LEU	42	-4.565	7.586	7.948	1.00	0.00
ATOM	631	CG	LEU	42	-5.396	7.313	6.686	1.00	0.00
ATOM	632	CD1	LEU	42	-5.266	5.864	6.253	1.00	0.00
ATOM	633	CD2	LEU	42	-6.857	7.667	6.926	1.00	0.00
ATOM	636	H	LEU	42	-2.523	8.812	5.800	1.00	0.00
ATOM	637	HA	LEU	42	-3.014	8.963	8.541	1.00	0.00
ATOM	638	1HB	LEU	42	-5.153	8.199	8.614	1.00	0.00
ATOM	639	2HB	LEU	42	-4.374	6.641	8.434	1.00	0.00
ATOM	640	HG	LEU	42	-5.030	7.935	5.882	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.765	5.227	6.969	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.221	5.596	6.198	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.721	5.737	5.282	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.465	6.782	6.812	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.169	8.414	6.211	1.00	0.00
ATOM	646	3HD2	LEU	42	-6.973	8.057	7.927	1.00	0.00
ATOM	647	N	HIS	43	-1.793	6.789	6.471	1.00	0.00
ATOM	648	CA	HIS	43	-0.750	5.790	6.257	1.00	0.00
ATOM	655	C	HIS	43	0.594	6.287	6.773	1.00	0.00
ATOM	656	O	HIS	43	1.227	5.641	7.604	1.00	0.00
ATOM	649	CB	HIS	43	-0.607	5.486	4.769	1.00	0.00
ATOM	650	CG	HIS	43	-1.491	4.385	4.252	1.00	0.00
ATOM	651	ND1	HIS	43	-1.145	3.588	3.179	1.00	0.00
ATOM	652	CD2	HIS	43	-2.737	3.991	4.620	1.00	0.00
ATOM	653	CE1	HIS	43	-2.141	2.767	2.904	1.00	0.00
ATOM	654	NE2	HIS	43	-3.117	2.989	3.764	1.00	0.00
ATOM	657	H	HIS	43	-2.280	7.138	5.698	1.00	0.00
ATOM	658	HA	HIS	43	-1.022	4.890	6.786	1.00	0.00
ATOM	659	1HB	HIS	43	0.419	5.215	4.579	1.00	0.00
ATOM	660	2HB	HIS	43	-0.840	6.380	4.211	1.00	0.00
ATOM	661	HD1	HIS	43	-0.276	3.585	2.717	1.00	0.00
ATOM	662	HD2	HIS	43	-3.323	4.390	5.438	1.00	0.00
ATOM	663	HE1	HIS	43	-2.154	2.035	2.109	1.00	0.00
ATOM	664	HE2	HIS	43	-3.908	2.422	3.869	1.00	0.00
ATOM	665	N	GLN	44	1.025	7.443	6.266	1.00	0.00
ATOM	666	CA	GLN	44	2.303	8.035	6.668	1.00	0.00
ATOM	672	C	GLN	44	2.324	8.317	8.159	1.00	0.00
ATOM	673	O	GLN	44	3.383	8.375	8.776	1.00	0.00
ATOM	667	CB	GLN	44	2.578	9.340	5.907	1.00	0.00
ATOM	668	CG	GLN	44	1.736	9.531	4.655	1.00	0.00
ATOM	669	CD	GLN	44	1.546	10.994	4.304	1.00	0.00
ATOM	670	OE1	GLN	44	0.464	11.549	4.486	1.00	0.00
ATOM	671	NE2	GLN	44	2.596	11.627	3.803	1.00	0.00
ATOM	674	H	GLN	44	0.472	7.908	5.602	1.00	0.00
ATOM	675	HA	GLN	44	3.083	7.326	6.439	1.00	0.00
ATOM	676	1HB	GLN	44	3.619	9.358	5.619	1.00	0.00
ATOM	677	2HB	GLN	44	2.386	10.172	6.569	1.00	0.00
ATOM	678	1HG	GLN	44	0.767	9.084	4.816	1.00	0.00
ATOM	679	2HG	GLN	44	2.226	9.039	3.828	1.00	0.00
ATOM	680	1HE2	GLN	44	3.431	11.124	3.687	1.00	0.00
ATOM	681	2HE2	GLN	44	2.499	12.573	3.566	1.00	0.00
ATOM	682	N	ALA	45	1.143	8.485	8.723	1.00	0.00
ATOM	683	CA	ALA	45	1.018	8.765	10.140	1.00	0.00
ATOM	685	C	ALA	45	1.261	7.515	10.972	1.00	0.00
ATOM	686	O	ALA	45	2.063	7.527	11.906	1.00	0.00
ATOM	684	CB	ALA	45	-0.351	9.346	10.443	1.00	0.00
ATOM	687	H	ALA	45	0.333	8.411	8.169	1.00	0.00
ATOM	688	HA	ALA	45	1.761	9.505	10.399	1.00	0.00
ATOM	689	1HB	ALA	45	-0.583	9.192	11.486	1.00	0.00
ATOM	690	2HB	ALA	45	-1.094	8.854	9.833	1.00	0.00
ATOM	691	3HB	ALA	45	-0.349	10.403	10.225	1.00	0.00
ATOM	692	N	MET	46	0.563	6.438	10.636	1.00	0.00
ATOM	693	CA	MET	46	0.700	5.188	11.371	1.00	0.00
ATOM	698	C	MET	46	2.064	4.550	11.146	1.00	0.00
ATOM	699	O	MET	46	2.655	3.996	12.072	1.00	0.00
ATOM	694	CB	MET	46	-0.403	4.214	10.970	1.00	0.00
ATOM	695	CG	MET	46	-0.763	3.233	12.069	1.00	0.00
ATOM	696	SD	MET	46	-2.452	2.639	11.935	1.00	0.00



ATOM	697	CE	MET	46	-3.270	3.756	13.061	1.00	0.00
ATOM	700	H	MET	46	-0.070	6.487	9.879	1.00	0.00
ATOM	701	HA	MET	46	0.599	5.416	12.422	1.00	0.00
ATOM	702	1HB	MET	46	-0.077	3.652	10.107	1.00	0.00
ATOM	703	2HB	MET	46	-1.289	4.775	10.710	1.00	0.00
ATOM	704	1HG	MET	46	-0.645	3.722	13.024	1.00	0.00
ATOM	705	2HG	MET	46	-0.100	2.389	12.013	1.00	0.00
ATOM	706	1HE	MET	46	-2.679	4.653	13.171	1.00	0.00
ATOM	707	2HE	MET	46	-3.386	3.278	14.021	1.00	0.00
ATOM	708	3HE	MET	46	-4.243	4.012	12.665	1.00	0.00
ATOM	709	N	ARG	47	2.553	4.620	9.915	1.00	0.00
ATOM	710	CA	ARG	47	3.843	4.034	9.566	1.00	0.00
ATOM	718	C	ARG	47	4.987	4.677	10.346	1.00	0.00
ATOM	719	O	ARG	47	5.946	3.997	10.722	1.00	0.00
ATOM	711	CB	ARG	47	4.100	4.171	8.062	1.00	0.00
ATOM	712	CG	ARG	47	3.738	2.926	7.262	1.00	0.00
ATOM	713	CD	ARG	47	4.907	1.953	7.160	1.00	0.00
ATOM	714	NE	ARG	47	6.198	2.641	7.067	1.00	0.00
ATOM	715	CZ	ARG	47	7.347	2.152	7.538	1.00	0.00
ATOM	716	NH1	ARG	47	7.398	0.933	8.061	1.00	0.00
ATOM	717	NH2	ARG	47	8.455	2.875	7.456	1.00	0.00
ATOM	720	H	ARG	47	2.025	5.069	9.216	1.00	0.00
ATOM	721	HA	ARG	47	3.803	2.985	9.816	1.00	0.00
ATOM	722	1HB	ARG	47	5.148	4.380	7.905	1.00	0.00
ATOM	723	2HB	ARG	47	3.517	4.999	7.683	1.00	0.00
ATOM	724	1HG	ARG	47	3.443	3.225	6.266	1.00	0.00
ATOM	725	2HG	ARG	47	2.912	2.428	7.747	1.00	0.00
ATOM	726	1HD	ARG	47	4.773	1.341	6.281	1.00	0.00
ATOM	727	2HD	ARG	47	4.910	1.324	8.037	1.00	0.00
ATOM	728	HE	ARG	47	6.205	3.534	6.642	1.00	0.00
ATOM	729	1HH1	ARG	47	6.573	0.368	8.105	1.00	0.00
ATOM	730	2HH1	ARG	47	8.271	0.572	8.418	1.00	0.00
ATOM	731	1HH2	ARG	47	8.431	3.789	7.039	1.00	0.00
ATOM	732	2HH2	ARG	47	9.320	2.516	7.814	1.00	0.00
ATOM	733	N	ALA	48	4.887	5.978	10.600	1.00	0.00
ATOM	734	CA	ALA	48	5.933	6.680	11.335	1.00	0.00
ATOM	736	C	ALA	48	5.767	6.470	12.824	1.00	0.00
ATOM	737	O	ALA	48	6.738	6.200	13.530	1.00	0.00
ATOM	735	CB	ALA	48	5.927	8.163	10.997	1.00	0.00
ATOM	738	H	ALA	48	4.092	6.474	10.296	1.00	0.00
ATOM	739	HA	ALA	48	6.887	6.265	11.033	1.00	0.00
ATOM	740	1HB	ALA	48	6.240	8.730	11.862	1.00	0.00
ATOM	741	2HB	ALA	48	4.930	8.465	10.711	1.00	0.00
ATOM	742	3HB	ALA	48	6.608	8.348	10.179	1.00	0.00
ATOM	743	N	ALA	49	4.529	6.572	13.293	1.00	0.00
ATOM	744	CA	ALA	49	4.237	6.367	14.699	1.00	0.00
ATOM	746	C	ALA	49	4.682	4.973	15.106	1.00	0.00
ATOM	747	O	ALA	49	5.456	4.809	16.049	1.00	0.00
ATOM	745	CB	ALA	49	2.755	6.560	14.967	1.00	0.00
ATOM	748	H	ALA	49	3.792	6.774	12.673	1.00	0.00
ATOM	749	HA	ALA	49	4.789	7.099	15.270	1.00	0.00
ATOM	750	1HB	ALA	49	2.589	7.548	15.372	1.00	0.00
ATOM	751	2HB	ALA	49	2.418	5.819	15.676	1.00	0.00
ATOM	752	3HB	ALA	49	2.205	6.453	14.043	1.00	0.00
ATOM	753	N	GLY	50	4.189	3.978	14.370	1.00	0.00
ATOM	754	CA	GLY	50	4.538	2.595	14.630	1.00	0.00
ATOM	755	C	GLY	50	6.034	2.373	14.694	1.00	0.00
ATOM	756	O	GLY	50	6.518	1.748	15.623	1.00	0.00
ATOM	757	H	GLY	50	3.576	4.189	13.632	1.00	0.00
ATOM	758	1HA	GLY	50	4.128	1.978	13.844	1.00	0.00
ATOM	759	2HA	GLY	50	4.101	2.298	15.571	1.00	0.00
ATOM	760	N	ASP	51	6.765	2.900	13.715	1.00	0.00
ATOM	761	CA	ASP	51	8.224	2.765	13.674	1.00	0.00
ATOM	766	C	ASP	51	8.861	3.363	14.924	1.00	0.00
ATOM	767	O	ASP	51	9.699	2.735	15.578	1.00	0.00
ATOM	762	CB	ASP	51	8.781	3.466	12.431	1.00	0.00
ATOM	763	CG	ASP	51	10.131	2.913	12.013	1.00	0.00
ATOM	764	OD1	ASP	51	11.164	3.412	12.513	1.00	0.00
ATOM	765	OD2	ASP	51	10.166	1.987	11.169	1.00	0.00
ATOM	768	H	ASP	51	6.318	3.399	13.001	1.00	0.00
ATOM	769	HA	ASP	51	8.465	1.714	13.628	1.00	0.00
ATOM	770	1HB	ASP	51	8.891	4.521	12.637	1.00	0.00
ATOM	771	2HB	ASP	51	8.088	3.343	11.610	1.00	0.00



ATOM	772	N	GLU	52	8.443	4.576	15.251	1.00	0.00
ATOM	773	CA	GLU	52	8.943	5.288	16.420	1.00	0.00
ATOM	779	C	GLU	52	8.652	4.505	17.703	1.00	0.00
ATOM	780	O	GLU	52	9.543	4.299	18.531	1.00	0.00
ATOM	774	CB	GLU	52	8.299	6.677	16.467	1.00	0.00
ATOM	775	CG	GLU	52	8.431	7.384	17.801	1.00	0.00
ATOM	776	CD	GLU	52	9.781	8.037	17.975	1.00	0.00
ATOM	777	OE1	GLU	52	9.935	9.207	17.575	1.00	0.00
ATOM	778	OE2	GLU	52	10.685	7.397	18.547	1.00	0.00
ATOM	781	H	GLU	52	7.765	5.012	14.685	1.00	0.00
ATOM	782	HA	GLU	52	10.013	5.396	16.314	1.00	0.00
ATOM	783	1HB	GLU	52	7.247	6.577	16.240	1.00	0.00
ATOM	784	2HB	GLU	52	8.760	7.296	15.713	1.00	0.00
ATOM	785	1HG	GLU	52	8.288	6.665	18.593	1.00	0.00
ATOM	786	2HG	GLU	52	7.668	8.147	17.865	1.00	0.00
ATOM	787	N	PHE	53	7.411	4.058	17.860	1.00	0.00
ATOM	788	CA	PHE	53	7.022	3.293	19.036	1.00	0.00
ATOM	796	C	PHE	53	7.681	1.919	19.034	1.00	0.00
ATOM	797	O	PHE	53	8.045	1.411	20.081	1.00	0.00
ATOM	789	CB	PHE	53	5.507	3.144	19.114	1.00	0.00
ATOM	790	CG	PHE	53	4.946	3.418	20.482	1.00	0.00
ATOM	791	CD1	PHE	53	4.920	4.708	20.991	1.00	0.00
ATOM	792	CD2	PHE	53	4.446	2.385	21.258	1.00	0.00
ATOM	793	CE1	PHE	53	4.405	4.960	22.250	1.00	0.00
ATOM	794	CE2	PHE	53	3.930	2.632	22.517	1.00	0.00
ATOM	795	CZ	PHE	53	3.909	3.921	23.013	1.00	0.00
ATOM	798	H	PHE	53	6.740	4.245	17.163	1.00	0.00
ATOM	799	HA	PHE	53	7.363	3.833	19.906	1.00	0.00
ATOM	800	1HB	PHE	53	5.237	2.135	18.838	1.00	0.00
ATOM	801	2HB	PHE	53	5.049	3.835	18.420	1.00	0.00
ATOM	802	HD1	PHE	53	4.461	1.377	20.871	1.00	0.00
ATOM	803	HD2	PHE	53	5.308	5.522	20.396	1.00	0.00
ATOM	804	HE1	PHE	53	3.544	1.819	23.112	1.00	0.00
ATOM	805	HE2	PHE	53	4.392	5.970	22.637	1.00	0.00
ATOM	806	HZ	PHE	53	3.506	4.116	23.995	1.00	0.00
ATOM	807	N	GLU	54	7.844	1.333	17.854	1.00	0.00
ATOM	808	CA	GLU	54	8.476	0.024	17.724	1.00	0.00
ATOM	814	C	GLU	54	9.909	0.097	18.252	1.00	0.00
ATOM	815	O	GLU	54	10.464	-0.881	18.749	1.00	0.00
ATOM	809	CB	GLU	54	8.437	-0.428	16.253	1.00	0.00
ATOM	810	CG	GLU	54	9.153	-1.745	15.972	1.00	0.00
ATOM	811	CD	GLU	54	8.465	-2.563	14.893	1.00	0.00
ATOM	812	OE1	GLU	54	7.218	-2.553	14.834	1.00	0.00
ATOM	813	OE2	GLU	54	9.165	-3.215	14.085	1.00	0.00
ATOM	816	H	GLU	54	7.536	1.794	17.041	1.00	0.00
ATOM	817	HA	GLU	54	7.915	-0.673	18.328	1.00	0.00
ATOM	818	1HB	GLU	54	8.882	0.344	15.635	1.00	0.00
ATOM	819	2HB	GLU	54	7.404	-0.547	15.960	1.00	0.00
ATOM	820	1HG	GLU	54	9.179	-2.326	16.882	1.00	0.00
ATOM	821	2HG	GLU	54	10.163	-1.532	15.653	1.00	0.00
ATOM	822	N	THR	55	10.481	1.286	18.161	1.00	0.00
ATOM	823	CA	THR	55	11.828	1.534	18.639	1.00	0.00
ATOM	827	C	THR	55	11.837	1.879	20.141	1.00	0.00
ATOM	828	O	THR	55	12.794	1.572	20.854	1.00	0.00
ATOM	824	CB	THR	55	12.474	2.682	17.829	1.00	0.00
ATOM	825	OG1	THR	55	12.315	2.431	16.423	1.00	0.00
ATOM	826	CG2	THR	55	13.954	2.825	18.159	1.00	0.00
ATOM	829	H	THR	55	9.971	2.027	17.764	1.00	0.00
ATOM	830	HA	THR	55	12.410	0.637	18.480	1.00	0.00
ATOM	831	HB	THR	55	11.970	3.609	18.076	1.00	0.00
ATOM	832	HG1	THR	55	11.377	2.490	16.188	1.00	0.00
ATOM	833	1HG2	THR	55	14.326	3.749	17.743	1.00	0.00
ATOM	834	2HG2	THR	55	14.500	1.995	17.735	1.00	0.00
ATOM	835	3HG2	THR	55	14.088	2.833	19.232	1.00	0.00
ATOM	836	N	ARG	56	10.775	2.531	20.613	1.00	0.00
ATOM	837	CA	ARG	56	10.677	2.936	22.021	1.00	0.00
ATOM	845	C	ARG	56	10.045	1.850	22.909	1.00	0.00
ATOM	846	O	ARG	56	10.221	1.861	24.127	1.00	0.00
ATOM	838	CB	ARG	56	9.859	4.233	22.134	1.00	0.00
ATOM	839	CG	ARG	56	10.674	5.505	21.934	1.00	0.00
ATOM	840	CD	ARG	56	9.823	6.754	22.157	1.00	0.00
ATOM	841	NE	ARG	56	10.024	7.763	21.118	1.00	0.00
ATOM	842	CZ	ARG	56	9.801	9.067	21.293	1.00	0.00



ATOM	843	NH1	ARG	56	9.455	9.530	22.486	1.00	0.00
ATOM	844	NH2	ARG	56	9.936	9.911	20.279	1.00	0.00
ATOM	847	H	ARG	56	10.046	2.761	19.999	1.00	0.00
ATOM	848	HA	ARG	56	11.677	3.130	22.375	1.00	0.00
ATOM	849	1HB	ARG	56	9.409	4.273	23.116	1.00	0.00
ATOM	850	2HB	ARG	56	9.075	4.216	21.392	1.00	0.00
ATOM	851	1HG	ARG	56	11.062	5.520	20.925	1.00	0.00
ATOM	852	2HG	ARG	56	11.494	5.511	22.636	1.00	0.00
ATOM	853	1HD	ARG	56	10.078	7.186	23.115	1.00	0.00
ATOM	854	2HD	ARG	56	8.784	6.465	22.163	1.00	0.00
ATOM	855	HE	ARG	56	10.319	7.445	20.221	1.00	0.00
ATOM	856	1HH1	ARG	56	9.362	8.906	23.262	1.00	0.00
ATOM	857	2HH1	ARG	56	9.284	10.510	22.612	1.00	0.00
ATOM	858	1HH2	ARG	56	10.212	9.573	19.367	1.00	0.00
ATOM	859	2HH2	ARG	56	9.735	10.898	20.406	1.00	0.00
ATOM	860	N	PHE	57	9.299	0.932	22.306	1.00	0.00
ATOM	861	CA	PHE	57	8.630	-0.132	23.049	1.00	0.00
ATOM	869	C	PHE	57	9.558	-1.316	23.279	1.00	0.00
ATOM	870	O	PHE	57	9.705	-2.189	22.422	1.00	0.00
ATOM	862	CB	PHE	57	7.369	-0.589	22.311	1.00	0.00
ATOM	863	CG	PHE	57	6.163	-0.740	23.198	1.00	0.00
ATOM	864	CD1	PHE	57	6.112	-0.130	24.444	1.00	0.00
ATOM	865	CD2	PHE	57	5.078	-1.495	22.783	1.00	0.00
ATOM	866	CE1	PHE	57	5.003	-0.271	25.255	1.00	0.00
ATOM	867	CE2	PHE	57	3.966	-1.639	23.592	1.00	0.00
ATOM	868	CZ	PHE	57	3.929	-1.026	24.828	1.00	0.00
ATOM	871	H	PHE	57	9.178	0.975	21.336	1.00	0.00
ATOM	872	HA	PHE	57	8.344	0.272	24.009	1.00	0.00
ATOM	873	1HB	PHE	57	7.562	-1.546	21.848	1.00	0.00
ATOM	874	2HB	PHE	57	7.127	0.132	21.544	1.00	0.00
ATOM	875	HD1	PHE	57	6.953	0.461	24.778	1.00	0.00
ATOM	876	HD2	PHE	57	5.105	-1.975	21.816	1.00	0.00
ATOM	877	HE1	PHE	57	4.976	0.210	26.222	1.00	0.00
ATOM	878	HE2	PHE	57	3.127	-2.230	23.256	1.00	0.00
ATOM	879	HZ	PHE	57	3.059	-1.139	25.461	1.00	0.00
ATOM	880	N	ARG	58	10.177	-1.328	24.448	1.00	0.00
ATOM	881	CA	ARG	58	11.105	-2.388	24.839	1.00	0.00
ATOM	889	C	ARG	58	10.416	-3.753	24.868	1.00	0.00
ATOM	890	O	ARG	58	11.033	-4.778	24.572	1.00	0.00
ATOM	882	CB	ARG	58	11.695	-2.084	26.215	1.00	0.00
ATOM	883	CG	ARG	58	13.126	-1.569	26.172	1.00	0.00
ATOM	884	CD	ARG	58	13.711	-1.445	27.570	1.00	0.00
ATOM	885	NE	ARG	58	14.630	-0.313	27.684	1.00	0.00
ATOM	886	CZ	ARG	58	15.253	0.031	28.810	1.00	0.00
ATOM	887	NH1	ARG	58	15.056	-0.665	29.928	1.00	0.00
ATOM	888	NH2	ARG	58	16.074	1.072	28.819	1.00	0.00
ATOM	891	H	ARG	58	10.010	-0.589	25.069	1.00	0.00
ATOM	892	HA	ARG	58	11.902	-2.415	24.113	1.00	0.00
ATOM	893	1HB	ARG	58	11.680	-2.985	26.807	1.00	0.00
ATOM	894	2HB	ARG	58	11.084	-1.336	26.698	1.00	0.00
ATOM	895	1HG	ARG	58	13.136	-0.597	25.699	1.00	0.00
ATOM	896	2HG	ARG	58	13.729	-2.256	25.598	1.00	0.00
ATOM	897	1HD	ARG	58	14.247	-2.354	27.802	1.00	0.00
ATOM	898	2HD	ARG	58	12.904	-1.314	28.273	1.00	0.00
ATOM	899	HE	ARG	58	14.797	0.223	26.868	1.00	0.00
ATOM	900	1HH1	ARG	58	14.436	-1.452	29.929	1.00	0.00
ATOM	901	2HH1	ARG	58	15.529	-0.407	30.774	1.00	0.00
ATOM	902	1HH2	ARG	58	16.224	1.602	27.978	1.00	0.00
ATOM	903	2HH2	ARG	58	16.559	1.327	29.661	1.00	0.00
ATOM	904	N	ARG	59	9.137	-3.762	25.220	1.00	0.00
ATOM	905	CA	ARG	59	8.366	-4.999	25.281	1.00	0.00
ATOM	913	C	ARG	59	7.364	-5.048	24.138	1.00	0.00
ATOM	914	O	ARG	59	6.272	-4.492	24.235	1.00	0.00
ATOM	906	CB	ARG	59	7.642	-5.110	26.624	1.00	0.00
ATOM	907	CG	ARG	59	7.825	-6.459	27.301	1.00	0.00
ATOM	908	CD	ARG	59	6.610	-6.829	28.133	1.00	0.00
ATOM	909	NE	ARG	59	6.942	-7.005	29.547	1.00	0.00
ATOM	910	CZ	ARG	59	6.274	-7.813	30.372	1.00	0.00
ATOM	911	NH1	ARG	59	5.264	-8.550	29.916	1.00	0.00
ATOM	912	NH2	ARG	59	6.628	-7.895	31.651	1.00	0.00
ATOM	915	H	ARG	59	8.696	-2.916	25.436	1.00	0.00
ATOM	916	HA	ARG	59	9.052	-5.825	25.179	1.00	0.00
ATOM	917	1HB	ARG	59	6.585	-4.951	26.464	1.00	0.00



ATOM	918	2HB	ARG	59	8.016	-4.344	27.287	1.00	0.00
ATOM	919	1HG	ARG	59	8.693	-6.415	27.942	1.00	0.00
ATOM	920	2HG	ARG	59	7.974	-7.214	26.542	1.00	0.00
ATOM	921	1HD	ARG	59	6.194	-7.750	27.753	1.00	0.00
ATOM	922	2HD	ARG	59	5.877	-6.041	28.042	1.00	0.00
ATOM	923	HE	ARG	59	7.698	-6.490	29.897	1.00	0.00
ATOM	924	1HH1	ARG	59	4.998	-8.504	28.936	1.00	0.00
ATOM	925	2HH1	ARG	59	4.761	-9.155	30.536	1.00	0.00
ATOM	926	1HH2	ARG	59	7.395	-7.354	31.998	1.00	0.00
ATOM	927	2HH2	ARG	59	6.124	-8.501	32.283	1.00	0.00
ATOM	928	N	THR	60	7.756	-5.689	23.047	1.00	0.00
ATOM	929	CA	THR	60	6.901	-5.783	21.876	1.00	0.00
ATOM	933	C	THR	60	6.591	-7.236	21.514	1.00	0.00
ATOM	934	O	THR	60	5.461	-7.699	21.662	1.00	0.00
ATOM	930	CB	THR	60	7.571	-5.099	20.672	1.00	0.00
ATOM	931	OG1	THR	60	8.965	-4.900	20.952	1.00	0.00
ATOM	932	CG2	THR	60	6.914	-3.763	20.363	1.00	0.00
ATOM	935	H	THR	60	8.649	-6.090	23.019	1.00	0.00
ATOM	936	HA	THR	60	5.979	-5.264	22.091	1.00	0.00
ATOM	937	HB	THR	60	7.473	-5.743	19.809	1.00	0.00
ATOM	938	HG1	THR	60	9.123	-3.968	21.151	1.00	0.00
ATOM	939	1HG2	THR	60	5.843	-3.856	20.463	1.00	0.00
ATOM	940	2HG2	THR	60	7.156	-3.467	19.352	1.00	0.00
ATOM	941	3HG2	THR	60	7.278	-3.016	21.053	1.00	0.00
ATOM	942	N	PHE	61	7.601	-7.939	21.014	1.00	0.00
ATOM	943	CA	PHE	61	7.441	-9.327	20.590	1.00	0.00
ATOM	951	C	PHE	61	7.438	-10.306	21.764	1.00	0.00
ATOM	952	O	PHE	61	7.191	-11.498	21.588	1.00	0.00
ATOM	944	CB	PHE	61	8.554	-9.700	19.608	1.00	0.00
ATOM	945	CG	PHE	61	8.325	-9.190	18.211	1.00	0.00
ATOM	946	CD1	PHE	61	8.672	-7.893	17.865	1.00	0.00
ATOM	947	CD2	PHE	61	7.766	-10.009	17.244	1.00	0.00
ATOM	948	CE1	PHE	61	8.463	-7.424	16.583	1.00	0.00
ATOM	949	CE2	PHE	61	7.555	-9.545	15.961	1.00	0.00
ATOM	950	CZ	PHE	61	7.904	-8.252	15.629	1.00	0.00
ATOM	953	H	PHE	61	8.473	-7.505	20.901	1.00	0.00
ATOM	954	HA	PHE	61	6.495	-9.405	20.080	1.00	0.00
ATOM	955	1HB	PHE	61	8.636	-10.776	19.561	1.00	0.00
ATOM	956	2HB	PHE	61	9.488	-9.288	19.961	1.00	0.00
ATOM	957	HD1	PHE	61	7.490	-11.021	17.503	1.00	0.00
ATOM	958	HD2	PHE	61	9.109	-7.244	18.611	1.00	0.00
ATOM	959	HE1	PHE	61	7.118	-10.196	15.216	1.00	0.00
ATOM	960	HE2	PHE	61	8.738	-6.411	16.326	1.00	0.00
ATOM	961	HZ	PHE	61	7.740	-7.887	14.625	1.00	0.00
ATOM	962	N	SER	62	7.723	-9.815	22.957	1.00	0.00
ATOM	963	CA	SER	62	7.765	-10.670	24.135	1.00	0.00
ATOM	966	C	SER	62	6.371	-11.129	24.558	1.00	0.00
ATOM	967	O	SER	62	6.154	-12.313	24.824	1.00	0.00
ATOM	964	CB	SER	62	8.458	-9.922	25.273	1.00	0.00
ATOM	965	OG	SER	62	8.860	-8.622	24.848	1.00	0.00
ATOM	968	H	SER	62	7.926	-8.861	23.051	1.00	0.00
ATOM	969	HA	SER	62	8.343	-11.543	23.881	1.00	0.00
ATOM	970	1HB	SER	62	9.332	-10.473	25.585	1.00	0.00
ATOM	971	2HB	SER	62	7.776	-9.822	26.105	1.00	0.00
ATOM	972	HG	SER	62	9.585	-8.313	25.408	1.00	0.00
ATOM	973	N	ASP	63	5.429	-10.197	24.617	1.00	0.00
ATOM	974	CA	ASP	63	4.057	-10.521	25.013	1.00	0.00
ATOM	979	C	ASP	63	3.384	-11.366	23.950	1.00	0.00
ATOM	980	O	ASP	63	2.397	-12.053	24.212	1.00	0.00
ATOM	975	CB	ASP	63	3.261	-9.237	25.276	1.00	0.00
ATOM	976	CG	ASP	63	3.445	-8.706	26.691	1.00	0.00
ATOM	977	OD1	ASP	63	4.563	-8.821	27.237	1.00	0.00
ATOM	978	OD2	ASP	63	2.467	-8.183	27.266	1.00	0.00
ATOM	981	H	ASP	63	5.656	-9.271	24.396	1.00	0.00
ATOM	982	HA	ASP	63	4.101	-11.106	25.917	1.00	0.00
ATOM	983	1HB	ASP	63	2.211	-9.434	25.118	1.00	0.00
ATOM	984	2HB	ASP	63	3.587	-8.473	24.584	1.00	0.00
ATOM	985	N	LEU	64	3.950	-11.343	22.758	1.00	0.00
ATOM	986	CA	LEU	64	3.443	-12.134	21.654	1.00	0.00
ATOM	991	C	LEU	64	3.782	-13.596	21.899	1.00	0.00
ATOM	992	O	LEU	64	2.970	-14.493	21.664	1.00	0.00
ATOM	987	CB	LEU	64	4.074	-11.669	20.349	1.00	0.00
ATOM	988	CG	LEU	64	4.046	-10.160	20.116	1.00	0.00



ATOM	989	CD1	LEU	64	4.663	-9.831	18.770	1.00	0.00
ATOM	990	CD2	LEU	64	2.623	-9.622	20.202	1.00	0.00
ATOM	993	H	LEU	64	4.752	-10.797	22.625	1.00	0.00
ATOM	994	HA	LEU	64	2.371	-12.013	21.604	1.00	0.00
ATOM	995	1HB	LEU	64	3.560	-12.149	19.531	1.00	0.00
ATOM	996	2HB	LEU	64	5.109	-11.990	20.347	1.00	0.00
ATOM	997	HG	LEU	64	4.637	-9.673	20.880	1.00	0.00
ATOM	998	1HD1	LEU	64	4.760	-8.760	18.668	1.00	0.00
ATOM	999	2HD1	LEU	64	4.030	-10.211	17.981	1.00	0.00
ATOM	1000	3HD1	LEU	64	5.639	-10.289	18.700	1.00	0.00
ATOM	1001	1HD2	LEU	64	2.021	-10.071	19.425	1.00	0.00
ATOM	1002	2HD2	LEU	64	2.631	-8.550	20.076	1.00	0.00
ATOM	1003	3HD2	LEU	64	2.204	-9.866	21.167	1.00	0.00
ATOM	1004	N	ALA	65	4.990	-13.813	22.399	1.00	0.00
ATOM	1005	CA	ALA	65	5.468	-15.148	22.703	1.00	0.00
ATOM	1007	C	ALA	65	4.785	-15.680	23.950	1.00	0.00
ATOM	1008	O	ALA	65	4.315	-16.817	23.973	1.00	0.00
ATOM	1006	CB	ALA	65	6.978	-15.136	22.880	1.00	0.00
ATOM	1009	H	ALA	65	5.573	-13.044	22.579	1.00	0.00
ATOM	1010	HA	ALA	65	5.228	-15.789	21.869	1.00	0.00
ATOM	1011	1HB	ALA	65	7.453	-15.285	21.922	1.00	0.00
ATOM	1012	2HB	ALA	65	7.268	-15.929	23.553	1.00	0.00
ATOM	1013	3HB	ALA	65	7.284	-14.186	23.290	1.00	0.00
ATOM	1014	N	ALA	66	4.719	-14.837	24.978	1.00	0.00
ATOM	1015	CA	ALA	66	4.077	-15.202	26.236	1.00	0.00
ATOM	1017	C	ALA	66	2.656	-15.696	25.982	1.00	0.00
ATOM	1018	O	ALA	66	2.223	-16.698	26.552	1.00	0.00
ATOM	1016	CB	ALA	66	4.070	-14.014	27.182	1.00	0.00
ATOM	1019	H	ALA	66	5.113	-13.938	24.883	1.00	0.00
ATOM	1020	HA	ALA	66	4.650	-15.994	26.695	1.00	0.00
ATOM	1021	1HB	ALA	66	4.912	-13.372	26.960	1.00	0.00
ATOM	1022	2HB	ALA	66	4.143	-14.364	28.200	1.00	0.00
ATOM	1023	3HB	ALA	66	3.152	-13.459	27.055	1.00	0.00
ATOM	1024	N	GLN	67	1.945	-14.991	25.109	1.00	0.00
ATOM	1025	CA	GLN	67	0.573	-15.354	24.757	1.00	0.00
ATOM	1031	C	GLN	67	0.500	-16.712	24.059	1.00	0.00
ATOM	1032	O	GLN	67	-0.260	-17.592	24.467	1.00	0.00
ATOM	1026	CB	GLN	67	-0.035	-14.313	23.825	1.00	0.00
ATOM	1027	CG	GLN	67	-0.668	-13.135	24.531	1.00	0.00
ATOM	1028	CD	GLN	67	-1.078	-12.061	23.549	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.264	-11.856	23.293	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.098	-11.370	22.992	1.00	0.00
ATOM	1033	H	GLN	67	2.360	-14.200	24.687	1.00	0.00
ATOM	1034	HA	GLN	67	-0.007	-15.394	25.666	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.792	-14.790	23.221	1.00	0.00
ATOM	1036	2HB	GLN	67	0.740	-13.935	23.175	1.00	0.00
ATOM	1037	1HG	GLN	67	0.043	-12.717	25.227	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.543	-13.475	25.063	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.827	-11.592	23.244	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.333	-10.665	22.355	1.00	0.00
ATOM	1041	N	LEU	68	1.261	-16.856	22.980	1.00	0.00
ATOM	1042	CA	LEU	68	1.253	-18.084	22.187	1.00	0.00
ATOM	1047	C	LEU	68	2.199	-19.152	22.736	1.00	0.00
ATOM	1048	O	LEU	68	2.534	-20.108	22.036	1.00	0.00
ATOM	1043	CB	LEU	68	1.615	-17.769	20.731	1.00	0.00
ATOM	1044	CG	LEU	68	0.456	-17.292	19.846	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.863	-17.908	20.288	1.00	0.00
ATOM	1046	CD2	LEU	68	0.364	-15.772	19.857	1.00	0.00
ATOM	1049	H	LEU	68	1.823	-16.104	22.688	1.00	0.00
ATOM	1050	HA	LEU	68	0.248	-18.476	22.209	1.00	0.00
ATOM	1051	1HB	LEU	68	2.031	-18.662	20.287	1.00	0.00
ATOM	1052	2HB	LEU	68	2.376	-17.003	20.733	1.00	0.00
ATOM	1053	HG	LEU	68	0.641	-17.604	18.829	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.903	-18.939	19.969	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.682	-17.362	19.842	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.942	-17.860	21.363	1.00	0.00
ATOM	1057	1HD2	LEU	68	1.337	-15.351	19.646	1.00	0.00
ATOM	1058	2HD2	LEU	68	0.030	-15.439	20.829	1.00	0.00
ATOM	1059	3HD2	LEU	68	-0.339	-15.450	19.104	1.00	0.00
ATOM	1060	N	HIS	69	2.632	-18.989	23.978	1.00	0.00
ATOM	1061	CA	HIS	69	3.540	-19.949	24.597	1.00	0.00
ATOM	1068	C	HIS	69	2.781	-21.186	25.061	1.00	0.00
ATOM	1069	O	HIS	69	3.346	-22.274	25.159	1.00	0.00



ATOM	1062	CB	HIS	69	4.257	-19.312	25.788	1.00	0.00
ATOM	1063	CG	HIS	69	5.721	-19.616	25.846	1.00	0.00
ATOM	1064	ND1	HIS	69	6.266	-20.515	26.737	1.00	0.00
ATOM	1065	CD2	HIS	69	6.756	-19.129	25.125	1.00	0.00
ATOM	1066	CE1	HIS	69	7.574	-20.569	26.562	1.00	0.00
ATOM	1067	NE2	HIS	69	7.896	-19.737	25.591	1.00	0.00
ATOM	1070	H	HIS	69	2.349	-18.199	24.487	1.00	0.00
ATOM	1071	HA	HIS	69	4.270	-20.241	23.859	1.00	0.00
ATOM	1072	1HB	HIS	69	3.806	-19.671	26.703	1.00	0.00
ATOM	1073	2HB	HIS	69	4.144	-18.240	25.736	1.00	0.00
ATOM	1074	HD1	HIS	69	5.762	-21.046	27.406	1.00	0.00
ATOM	1075	HD2	HIS	69	6.698	-18.398	24.331	1.00	0.00
ATOM	1076	HE1	HIS	69	8.262	-21.189	27.118	1.00	0.00
ATOM	1077	HE2	HIS	69	8.807	-19.600	25.235	1.00	0.00
ATOM	1078	N	VAL	70	1.500	-21.002	25.350	1.00	0.00
ATOM	1079	CA	VAL	70	0.654	-22.097	25.810	1.00	0.00
ATOM	1083	C	VAL	70	-0.055	-22.789	24.647	1.00	0.00
ATOM	1084	O	VAL	70	0.225	-23.949	24.333	1.00	0.00
ATOM	1080	CB	VAL	70	-0.404	-21.620	26.834	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.080	-22.157	28.220	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.503	-20.100	26.858	1.00	0.00
ATOM	1085	H	VAL	70	1.116	-20.107	25.253	1.00	0.00
ATOM	1086	HA	VAL	70	1.292	-22.817	26.301	1.00	0.00
ATOM	1087	HB	VAL	70	-1.365	-22.016	26.537	1.00	0.00
ATOM	1088	1HG1	VAL	70	0.953	-21.946	28.455	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.243	-23.226	28.240	1.00	0.00
ATOM	1090	3HG1	VAL	70	-0.719	-21.682	28.950	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.337	-19.713	25.863	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.244	-19.702	27.529	1.00	0.00
ATOM	1093	3HG2	VAL	70	-1.486	-19.807	27.198	1.00	0.00
ATOM	1094	N	THR	71	-0.985	-22.077	24.022	1.00	0.00
ATOM	1095	CA	THR	71	-1.750	-22.621	22.908	1.00	0.00
ATOM	1099	C	THR	71	-2.485	-21.501	22.164	1.00	0.00
ATOM	1100	O	THR	71	-2.918	-20.521	22.774	1.00	0.00
ATOM	1096	CB	THR	71	-2.771	-23.681	23.410	1.00	0.00
ATOM	1097	OG1	THR	71	-3.566	-24.181	22.324	1.00	0.00
ATOM	1098	CG2	THR	71	-3.687	-23.103	24.481	1.00	0.00
ATOM	1101	H	THR	71	-1.173	-21.165	24.322	1.00	0.00
ATOM	1102	HA	THR	71	-1.060	-23.104	22.232	1.00	0.00
ATOM	1103	HB	THR	71	-2.219	-24.502	23.842	1.00	0.00
ATOM	1104	HG1	THR	71	-4.278	-23.556	22.135	1.00	0.00
ATOM	1105	1HG2	THR	71	-3.320	-23.383	25.457	1.00	0.00
ATOM	1106	2HG2	THR	71	-4.688	-23.491	24.349	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.704	-22.028	24.397	1.00	0.00
ATOM	1108	N	PRO	72	-2.629	-21.627	20.833	1.00	0.00
ATOM	1109	CA	PRO	72	-3.313	-20.630	20.008	1.00	0.00
ATOM	1113	C	PRO	72	-4.826	-20.646	20.228	1.00	0.00
ATOM	1114	O	PRO	72	-5.348	-21.482	20.970	1.00	0.00
ATOM	1110	CB	PRO	72	-2.983	-21.047	18.564	1.00	0.00
ATOM	1111	CG	PRO	72	-1.944	-22.115	18.675	1.00	0.00
ATOM	1112	CD	PRO	72	-2.133	-22.744	20.023	1.00	0.00
ATOM	1115	HA	PRO	72	-2.935	-19.635	20.194	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.609	-20.192	18.020	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.877	-21.418	18.083	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.959	-21.678	18.602	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.088	-22.850	17.897	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.193	-23.110	20.405	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.861	-23.540	19.972	1.00	0.00
ATOM	1122	N	GLY	73	-5.527	-19.721	19.582	1.00	0.00
ATOM	1123	CA	GLY	73	-6.970	-19.654	19.720	1.00	0.00
ATOM	1124	C	GLY	73	-7.402	-18.747	20.852	1.00	0.00
ATOM	1125	O	GLY	73	-8.100	-17.755	20.635	1.00	0.00
ATOM	1126	H	GLY	73	-5.062	-19.081	19.002	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.350	-20.646	19.905	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.391	-19.284	18.796	1.00	0.00
ATOM	1129	N	SER	74	-6.974	-19.081	22.063	1.00	0.00
ATOM	1130	CA	SER	74	-7.307	-18.293	23.243	1.00	0.00
ATOM	1133	C	SER	74	-6.456	-17.025	23.312	1.00	0.00
ATOM	1134	O	SER	74	-5.811	-16.735	24.321	1.00	0.00
ATOM	1131	CB	SER	74	-7.124	-19.147	24.495	1.00	0.00
ATOM	1132	OG	SER	74	-7.513	-20.492	24.246	1.00	0.00
ATOM	1135	H	SER	74	-6.413	-19.880	22.167	1.00	0.00
ATOM	1136	HA	SER	74	-8.347	-18.002	23.164	1.00	0.00



ATOM	1137	LHB	SER	74	-7.733	-18.751	25.295	1.00	0.00
ATOM	1138	2HB	SER	74	-6.086	-19.135	24.791	1.00	0.00
ATOM	1139	HG	SER	74	-7.994	-20.538	23.406	1.00	0.00
ATOM	1140	N	ALA	75	-6.469	-16.270	22.222	1.00	0.00
ATOM	1141	CA	ALA	75	-5.716	-15.032	22.131	1.00	0.00
ATOM	1143	C	ALA	75	-6.651	-13.829	22.152	1.00	0.00
ATOM	1144	O	ALA	75	-6.254	-12.732	22.538	1.00	0.00
ATOM	1142	CB	ALA	75	-4.870	-15.020	20.870	1.00	0.00
ATOM	1145	H	ALA	75	-7.007	-16.564	21.451	1.00	0.00
ATOM	1146	HA	ALA	75	-5.057	-14.976	22.979	1.00	0.00
ATOM	1147	LHB	ALA	75	-5.512	-15.122	20.008	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.171	-15.843	20.898	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.328	-14.089	20.807	1.00	0.00
ATOM	1150	N	GLN	76	-7.896	-14.039	21.725	1.00	0.00
ATOM	1151	CA	GLN	76	-8.877	-12.959	21.683	1.00	0.00
ATOM	1157	C	GLN	76	-9.168	-12.409	23.061	1.00	0.00
ATOM	1158	O	GLN	76	-9.382	-11.212	23.212	1.00	0.00
ATOM	1152	CB	GLN	76	-10.173	-13.401	20.993	1.00	0.00
ATOM	1153	CG	GLN	76	-10.643	-14.791	21.370	1.00	0.00
ATOM	1154	CD	GLN	76	-11.868	-15.220	20.590	1.00	0.00
ATOM	1155	OE1	GLN	76	-11.875	-16.277	19.959	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.911	-14.403	20.626	1.00	0.00
ATOM	1159	H	GLN	76	-8.154	-14.934	21.423	1.00	0.00
ATOM	1160	HA	GLN	76	-8.442	-12.162	21.098	1.00	0.00
ATOM	1161	LHB	GLN	76	-10.020	-13.373	19.925	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.955	-12.702	21.249	1.00	0.00
ATOM	1163	LHG	GLN	76	-10.879	-14.802	22.416	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.848	-15.490	21.169	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.834	-13.575	21.146	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.718	-14.660	20.134	1.00	0.00
ATOM	1167	N	GLN	77	-9.165	-13.270	24.063	1.00	0.00
ATOM	1168	CA	GLN	77	-9.426	-12.835	25.425	1.00	0.00
ATOM	1174	C	GLN	77	-8.292	-11.947	25.920	1.00	0.00
ATOM	1175	O	GLN	77	-8.532	-10.892	26.494	1.00	0.00
ATOM	1169	CB	GLN	77	-9.611	-14.037	26.354	1.00	0.00
ATOM	1170	CG	GLN	77	-10.723	-14.984	25.920	1.00	0.00
ATOM	1171	CD	GLN	77	-10.224	-16.104	25.027	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.190	-15.983	24.370	1.00	0.00
ATOM	1173	NE2	GLN	77	-10.961	-17.199	24.988	1.00	0.00
ATOM	1176	H	GLN	77	-8.979	-14.223	23.886	1.00	0.00
ATOM	1177	HA	GLN	77	-10.333	-12.248	25.412	1.00	0.00
ATOM	1178	LHB	GLN	77	-9.843	-13.677	27.346	1.00	0.00
ATOM	1179	2HB	GLN	77	-8.687	-14.594	26.391	1.00	0.00
ATOM	1180	LHG	GLN	77	-11.470	-14.417	25.382	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.170	-15.420	26.800	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.781	-17.228	25.529	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.663	-17.941	24.416	1.00	0.00
ATOM	1184	N	ARG	78	-7.061	-12.364	25.672	1.00	0.00
ATOM	1185	CA	ARG	78	-5.900	-11.584	26.080	1.00	0.00
ATOM	1193	C	ARG	78	-5.886	-10.246	25.351	1.00	0.00
ATOM	1194	O	ARG	78	-5.644	-9.200	25.954	1.00	0.00
ATOM	1186	CB	ARG	78	-4.607	-12.351	25.788	1.00	0.00
ATOM	1187	CG	ARG	78	-4.171	-13.269	26.918	1.00	0.00
ATOM	1188	CD	ARG	78	-3.759	-14.635	26.394	1.00	0.00
ATOM	1189	NE	ARG	78	-4.077	-15.704	27.339	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.706	-16.975	27.190	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.012	-17.350	26.119	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.030	-17.869	28.116	1.00	0.00
ATOM	1195	H	ARG	78	-6.928	-13.204	25.193	1.00	0.00
ATOM	1196	HA	ARG	78	-5.975	-11.404	27.142	1.00	0.00
ATOM	1197	LHB	ARG	78	-3.816	-11.640	25.606	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.751	-12.950	24.902	1.00	0.00
ATOM	1199	LHG	ARG	78	-4.993	-13.391	27.609	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.332	-12.822	27.428	1.00	0.00
ATOM	1201	LHD	ARG	78	-2.694	-14.633	26.215	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.278	-14.823	25.466	1.00	0.00
ATOM	1203	HE	ARG	78	-4.600	-15.454	28.142	1.00	0.00
ATOM	1204	LHH1	ARG	78	-2.766	-16.679	25.418	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.733	-18.305	26.010	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.554	-17.589	28.927	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.752	-18.834	28.018	1.00	0.00
ATOM	1208	N	PHE	79	-6.160	-10.290	24.050	1.00	0.00
ATOM	1209	CA	PHE	79	-6.189	-9.088	23.233	1.00	0.00



ATOM	1217	C	PHE	79	-7.275	-8.132	23.715	1.00	0.00
ATOM	1218	O	PHE	79	-7.025	-6.945	23.908	1.00	0.00
ATOM	1210	CB	PHE	79	-6.416	-9.438	21.763	1.00	0.00
ATOM	1211	CG	PHE	79	-5.928	-8.378	20.816	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.570	-8.142	20.659	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.826	-7.615	20.087	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.119	-7.165	19.793	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.379	-6.636	19.218	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.024	-6.411	19.071	1.00	0.00
ATOM	1219	H	PHE	79	-6.349	-11.156	23.631	1.00	0.00
ATOM	1220	HA	PHE	79	-5.231	-8.599	23.331	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.473	-9.576	21.591	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.894	-10.355	21.534	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.864	-8.733	21.221	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.885	-7.790	20.200	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.060	-6.993	19.681	1.00	0.00
ATOM	1226	HE2	PHE	79	-7.088	-6.047	18.656	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.673	-5.647	18.394	1.00	0.00
ATOM	1228	N	THR	80	-8.485	-8.646	23.909	1.00	0.00
ATOM	1229	CA	THR	80	-9.589	-7.807	24.368	1.00	0.00
ATOM	1233	C	THR	80	-9.289	-7.162	25.724	1.00	0.00
ATOM	1234	O	THR	80	-9.725	-6.046	25.987	1.00	0.00
ATOM	1230	CB	THR	80	-10.920	-8.581	24.462	1.00	0.00
ATOM	1231	OG1	THR	80	-10.697	-9.899	24.963	1.00	0.00
ATOM	1232	CG2	THR	80	-11.599	-8.656	23.105	1.00	0.00
ATOM	1235	H	THR	80	-8.639	-9.603	23.728	1.00	0.00
ATOM	1236	HA	THR	80	-9.718	-7.019	23.640	1.00	0.00
ATOM	1237	HB	THR	80	-11.571	-8.059	25.143	1.00	0.00
ATOM	1238	HG1	THR	80	-10.270	-10.432	24.279	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.591	-8.229	23.174	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.673	-9.688	22.796	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.019	-8.104	22.381	1.00	0.00
ATOM	1242	N	GLN	81	-8.542	-7.860	26.582	1.00	0.00
ATOM	1243	CA	GLN	81	-8.205	-7.322	27.900	1.00	0.00
ATOM	1249	C	GLN	81	-7.327	-6.082	27.777	1.00	0.00
ATOM	1250	O	GLN	81	-7.665	-5.023	28.305	1.00	0.00
ATOM	1244	CB	GLN	81	-7.509	-8.374	28.761	1.00	0.00
ATOM	1245	CG	GLN	81	-8.410	-9.539	29.127	1.00	0.00
ATOM	1246	CD	GLN	81	-9.582	-9.142	30.007	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.564	-9.361	31.217	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.613	-8.565	29.403	1.00	0.00
ATOM	1251	H	GLN	81	-8.212	-8.751	26.324	1.00	0.00
ATOM	1252	HA	GLN	81	-9.131	-7.042	28.379	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.169	-7.910	29.674	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.657	-8.760	28.222	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.823	-10.283	29.645	1.00	0.00
ATOM	1256	2HG	GLN	81	-8.797	-9.962	28.213	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.568	-8.430	28.435	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.382	-8.293	29.953	1.00	0.00
ATOM	1259	N	VAL	82	-6.205	-6.215	27.073	1.00	0.00
ATOM	1260	CA	VAL	82	-5.290	-5.088	26.884	1.00	0.00
ATOM	1264	C	VAL	82	-5.989	-3.954	26.136	1.00	0.00
ATOM	1265	O	VAL	82	-5.758	-2.779	26.412	1.00	0.00
ATOM	1261	CB	VAL	82	-3.991	-5.504	26.138	1.00	0.00
ATOM	1262	CG1	VAL	82	-4.289	-6.091	24.769	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.041	-4.324	26.008	1.00	0.00
ATOM	1266	H	VAL	82	-5.993	-7.087	26.671	1.00	0.00
ATOM	1267	HA	VAL	82	-5.011	-4.727	27.868	1.00	0.00
ATOM	1268	HB	VAL	82	-3.499	-6.263	26.723	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.734	-7.010	24.643	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.998	-5.387	24.004	1.00	0.00
ATOM	1271	3HG1	VAL	82	-5.346	-6.295	24.687	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.610	-3.416	25.875	1.00	0.00
ATOM	1273	2HG2	VAL	82	-2.396	-4.474	25.155	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.441	-4.244	26.903	1.00	0.00
ATOM	1275	N	SER	83	-6.866	-4.316	25.205	1.00	0.00
ATOM	1276	CA	SER	83	-7.613	-3.329	24.437	1.00	0.00
ATOM	1279	C	SER	83	-8.586	-2.572	25.339	1.00	0.00
ATOM	1280	O	SER	83	-8.705	-1.349	25.252	1.00	0.00
ATOM	1277	CB	SER	83	-8.367	-4.005	23.290	1.00	0.00
ATOM	1278	OG	SER	83	-7.483	-4.761	22.478	1.00	0.00
ATOM	1281	H	SER	83	-7.020	-5.273	25.041	1.00	0.00
ATOM	1282	HA	SER	83	-6.904	-2.625	24.024	1.00	0.00



ATOM	1283	1HB	SER	83	-8.843	-3.251	22.680	1.00	0.00
ATOM	1284	2HB	SER	83	-9.118	-4.668	23.695	1.00	0.00
ATOM	1285	HG	SER	83	-7.179	-5.536	22.969	1.00	0.00
ATOM	1286	N	ASP	84	-9.267	-3.306	26.215	1.00	0.00
ATOM	1287	CA	ASP	84	-10.218	-2.708	27.146	1.00	0.00
ATOM	1292	C	ASP	84	-9.493	-1.769	28.100	1.00	0.00
ATOM	1293	O	ASP	84	-9.943	-0.651	28.362	1.00	0.00
ATOM	1288	CB	ASP	84	-10.945	-3.799	27.943	1.00	0.00
ATOM	1289	CG	ASP	84	-12.338	-4.094	27.414	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.580	-3.907	26.200	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.197	-4.531	28.209	1.00	0.00
ATOM	1294	H	ASP	84	-9.120	-4.278	26.243	1.00	0.00
ATOM	1295	HA	ASP	84	-10.940	-2.141	26.574	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.031	-3.481	28.974	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.367	-4.711	27.902	1.00	0.00
ATOM	1298	N	GLU	85	-8.355	-2.230	28.611	1.00	0.00
ATOM	1299	CA	GLU	85	-7.555	-1.435	29.532	1.00	0.00
ATOM	1305	C	GLU	85	-6.913	-0.252	28.810	1.00	0.00
ATOM	1306	O	GLU	85	-6.502	0.718	29.441	1.00	0.00
ATOM	1300	CB	GLU	85	-6.489	-2.306	30.203	1.00	0.00
ATOM	1301	CG	GLU	85	-7.070	-3.283	31.214	1.00	0.00
ATOM	1302	CD	GLU	85	-6.014	-3.921	32.094	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.123	-4.613	31.560	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.085	-3.747	33.332	1.00	0.00
ATOM	1307	H	GLU	85	-8.043	-3.131	28.357	1.00	0.00
ATOM	1308	HA	GLU	85	-8.221	-1.049	30.294	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.784	-1.666	30.713	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.967	-2.870	29.442	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.591	-4.066	30.682	1.00	0.00
ATOM	1312	2HG	GLU	85	-7.770	-2.753	31.843	1.00	0.00
ATOM	1313	N	LEU	86	-6.850	-0.329	27.486	1.00	0.00
ATOM	1314	CA	LEU	86	-6.281	0.741	26.678	1.00	0.00
ATOM	1319	C	LEU	86	-7.334	1.813	26.420	1.00	0.00
ATOM	1320	O	LEU	86	-7.047	3.009	26.457	1.00	0.00
ATOM	1315	CB	LEU	86	-5.755	0.194	25.347	1.00	0.00
ATOM	1316	CG	LEU	86	-4.250	0.355	25.124	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.467	-0.441	26.155	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.872	-0.083	23.718	1.00	0.00
ATOM	1321	H	LEU	86	-7.207	-1.125	27.038	1.00	0.00
ATOM	1322	HA	LEU	86	-5.464	1.180	27.230	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.271	0.701	24.544	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.995	-0.859	25.296	1.00	0.00
ATOM	1325	HG	LEU	86	-3.984	1.397	25.234	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.597	0.121	26.459	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.156	-1.382	25.724	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.093	-0.629	27.015	1.00	0.00
ATOM	1329	1HD2	LEU	86	-4.560	0.352	23.008	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.918	-1.160	23.652	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.868	0.249	23.495	1.00	0.00
ATOM	1332	N	PHE	87	-8.563	1.375	26.172	1.00	0.00
ATOM	1333	CA	PHE	87	-9.661	2.297	25.920	1.00	0.00
ATOM	1341	C	PHE	87	-10.253	2.787	27.239	1.00	0.00
ATOM	1342	O	PHE	87	-11.135	3.645	27.248	1.00	0.00
ATOM	1334	CB	PHE	87	-10.749	1.636	25.065	1.00	0.00
ATOM	1335	CG	PHE	87	-11.671	2.625	24.407	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.241	3.380	23.329	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.962	2.810	24.875	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.080	4.300	22.731	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.805	3.728	24.281	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.363	4.475	23.209	1.00	0.00
ATOM	1343	H	PHE	87	-8.737	0.406	26.162	1.00	0.00
ATOM	1344	HA	PHE	87	-9.261	3.145	25.386	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.345	0.989	25.691	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.281	1.049	24.290	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.236	3.245	22.954	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.309	2.225	25.716	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.731	4.883	21.891	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.809	3.862	24.657	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.021	5.194	22.743	1.00	0.00
ATOM	1352	N	GLN	88	-9.750	2.227	28.339	1.00	0.00
ATOM	1353	CA	GLN	88	-10.196	2.576	29.689	1.00	0.00
ATOM	1359	C	GLN	88	-10.335	4.087	29.864	1.00	0.00
ATOM	1360	O	GLN	88	-11.312	4.565	30.439	1.00	0.00



ATOM	1354	CB	GLN	88	-9.209	2.028	30.719	1.00	0.00
ATOM	1355	CG	GLN	88	-9.873	1.423	31.945	1.00	0.00
ATOM	1356	CD	GLN	88	-8.975	0.433	32.662	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.168	-0.778	32.567	1.00	0.00
ATOM	1358	NE2	GLN	88	-7.988	0.942	33.388	1.00	0.00
ATOM	1361	H	GLN	88	-9.053	1.545	28.238	1.00	0.00
ATOM	1362	HA	GLN	88	-11.160	2.117	29.848	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.565	2.831	31.046	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.607	1.263	30.251	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.773	0.913	31.637	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.126	2.217	32.632	1.00	0.00
ATOM	1367	1HE2	GLN	88	-7.894	1.916	33.423	1.00	0.00
ATOM	1368	2HE2	GLN	88	-7.393	0.321	33.860	1.00	0.00
ATOM	1369	N	GLY	89	-9.361	4.832	29.359	1.00	0.00
ATOM	1370	CA	GLY	89	-9.412	6.273	29.470	1.00	0.00
ATOM	1371	C	GLY	89	-8.214	6.954	28.850	1.00	0.00
ATOM	1372	O	GLY	89	-7.514	7.710	29.523	1.00	0.00
ATOM	1373	H	GLY	89	-8.606	4.401	28.906	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.462	6.539	30.516	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.306	6.627	28.978	1.00	0.00
ATOM	1376	N	GLY	90	-7.975	6.708	27.566	1.00	0.00
ATOM	1377	CA	GLY	90	-6.849	7.342	26.909	1.00	0.00
ATOM	1378	C	GLY	90	-6.509	6.771	25.540	1.00	0.00
ATOM	1379	O	GLY	90	-5.363	6.377	25.313	1.00	0.00
ATOM	1380	H	GLY	90	-8.568	6.108	27.064	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.985	7.243	27.546	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.070	8.392	26.794	1.00	0.00
ATOM	1383	N	PRO	91	-7.456	6.750	24.578	1.00	0.00
ATOM	1384	CA	PRO	91	-7.187	6.260	23.226	1.00	0.00
ATOM	1388	C	PRO	91	-6.490	7.317	22.372	1.00	0.00
ATOM	1389	O	PRO	91	-6.795	7.487	21.194	1.00	0.00
ATOM	1385	CB	PRO	91	-8.569	5.968	22.649	1.00	0.00
ATOM	1386	CG	PRO	91	-9.565	6.643	23.531	1.00	0.00
ATOM	1387	CD	PRO	91	-8.835	7.232	24.716	1.00	0.00
ATOM	1390	HA	PRO	91	-6.596	5.356	23.239	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.727	4.902	22.620	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.622	6.373	21.647	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.305	5.929	23.856	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.042	7.427	22.973	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.273	6.879	25.638	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.865	8.311	24.678	1.00	0.00
ATOM	1397	N	ASN	92	-5.567	8.030	22.992	1.00	0.00
ATOM	1398	CA	ASN	92	-4.819	9.093	22.336	1.00	0.00
ATOM	1403	C	ASN	92	-3.928	8.545	21.231	1.00	0.00
ATOM	1404	O	ASN	92	-3.582	7.367	21.245	1.00	0.00
ATOM	1399	CB	ASN	92	-3.975	9.828	23.375	1.00	0.00
ATOM	1400	CG	ASN	92	-3.494	11.179	22.897	1.00	0.00
ATOM	1401	OD1	ASN	92	-2.509	11.272	22.164	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.186	12.231	23.305	1.00	0.00
ATOM	1405	H	ASN	92	-5.387	7.838	23.933	1.00	0.00
ATOM	1406	HA	ASN	92	-5.526	9.783	21.905	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.110	9.225	23.615	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.567	9.976	24.266	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.964	12.080	23.886	1.00	0.00
ATOM	1410	2HD2	ASN	92	-3.892	13.119	23.015	1.00	0.00
ATOM	1411	N	TRP	93	-3.539	9.413	20.293	1.00	0.00
ATOM	1412	CA	TRP	93	-2.664	9.027	19.185	1.00	0.00
ATOM	1423	C	TRP	93	-1.383	8.396	19.718	1.00	0.00
ATOM	1424	O	TRP	93	-0.782	7.552	19.057	1.00	0.00
ATOM	1413	CB	TRP	93	-2.321	10.232	18.303	1.00	0.00
ATOM	1414	CG	TRP	93	-3.479	11.156	18.048	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.671	12.392	18.599	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.600	10.931	17.177	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.833	12.945	18.122	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.417	12.072	17.251	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.990	9.882	16.336	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.600	12.193	16.527	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.167	10.008	15.617	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.955	11.157	15.716	1.00	0.00
ATOM	1425	H	TRP	93	-3.840	10.343	20.354	1.00	0.00
ATOM	1426	HA	TRP	93	-3.185	8.293	18.587	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.963	9.873	17.346	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.541	10.804	18.780	1.00	0.00



ATOM	1429	HD1	TRP	93	-2.997	12.853	19.305	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.190	13.834	18.362	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.396	8.985	16.245	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.221	13.074	16.589	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.489	9.214	14.959	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.865	11.212	15.134	1.00	0.00
ATOM	1435	N	GLY	94	-0.993	8.784	20.936	1.00	0.00
ATOM	1436	CA	GLY	94	0.190	8.222	21.550	1.00	0.00
ATOM	1437	C	GLY	94	0.015	6.734	21.791	1.00	0.00
ATOM	1438	O	GLY	94	0.933	5.940	21.589	1.00	0.00
ATOM	1439	H	GLY	94	-1.530	9.441	21.426	1.00	0.00
ATOM	1440	1HA	GLY	94	0.360	8.711	22.498	1.00	0.00
ATOM	1441	2HA	GLY	94	1.039	8.393	20.910	1.00	0.00
ATOM	1442	N	ARG	95	-1.189	6.361	22.209	1.00	0.00
ATOM	1443	CA	ARG	95	-1.526	4.969	22.460	1.00	0.00
ATOM	1451	C	ARG	95	-2.013	4.299	21.184	1.00	0.00
ATOM	1452	O	ARG	95	-1.921	3.081	21.044	1.00	0.00
ATOM	1444	CB	ARG	95	-2.591	4.861	23.553	1.00	0.00
ATOM	1445	CG	ARG	95	-2.510	3.571	24.356	1.00	0.00
ATOM	1446	CD	ARG	95	-1.399	3.630	25.391	1.00	0.00
ATOM	1447	NE	ARG	95	-0.689	2.356	25.514	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.678	1.612	26.622	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.339	2.015	27.699	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.011	0.462	26.653	1.00	0.00
ATOM	1453	H	ARG	95	-1.883	7.045	22.328	1.00	0.00
ATOM	1454	HA	ARG	95	-0.629	4.468	22.786	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.567	4.913	23.095	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.477	5.691	24.235	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.319	2.750	23.680	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.451	3.413	24.861	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.830	3.884	26.348	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.695	4.394	25.100	1.00	0.00
ATOM	1461	HE	ARG	95	-0.201	2.037	24.724	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.849	2.877	27.684	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.338	1.453	28.535	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.487	0.145	25.843	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.007	-0.097	27.485	1.00	0.00
ATOM	1466	N	LEU	96	-2.530	5.108	20.260	1.00	0.00
ATOM	1467	CA	LEU	96	-3.038	4.620	18.978	1.00	0.00
ATOM	1472	C	LEU	96	-1.964	3.823	18.257	1.00	0.00
ATOM	1473	O	LEU	96	-2.254	2.871	17.527	1.00	0.00
ATOM	1468	CB	LEU	96	-3.492	5.793	18.102	1.00	0.00
ATOM	1469	CG	LEU	96	-4.914	5.700	17.532	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.939	6.204	16.100	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.446	4.277	17.596	1.00	0.00
ATOM	1474	H	LEU	96	-2.571	6.072	20.447	1.00	0.00
ATOM	1475	HA	LEU	96	-3.883	3.976	19.176	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.804	5.876	17.273	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.424	6.696	18.690	1.00	0.00
ATOM	1478	HG	LEU	96	-5.570	6.331	18.117	1.00	0.00
ATOM	1479	1HD1	LEU	96	-4.892	5.364	15.424	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.090	6.850	15.931	1.00	0.00
ATOM	1481	3HD1	LEU	96	-5.852	6.755	15.927	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.333	4.196	16.985	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.689	4.029	18.618	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.693	3.595	17.229	1.00	0.00
ATOM	1485	N	VAL	97	-0.720	4.204	18.500	1.00	0.00
ATOM	1486	CA	VAL	97	0.413	3.522	17.914	1.00	0.00
ATOM	1490	C	VAL	97	0.450	2.089	18.411	1.00	0.00
ATOM	1491	O	VAL	97	0.483	1.144	17.627	1.00	0.00
ATOM	1487	CB	VAL	97	1.736	4.200	18.293	1.00	0.00
ATOM	1488	CG1	VAL	97	2.843	3.659	17.421	1.00	0.00
ATOM	1489	CG2	VAL	97	1.636	5.711	18.167	1.00	0.00
ATOM	1492	H	VAL	97	-0.563	4.955	19.116	1.00	0.00
ATOM	1493	HA	VAL	97	0.316	3.534	16.832	1.00	0.00
ATOM	1494	HB	VAL	97	1.964	3.955	19.320	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.172	2.706	17.806	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.671	4.353	17.420	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.477	3.533	16.413	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.953	6.172	19.092	1.00	0.00
ATOM	1499	2HG2	VAL	97	0.613	5.988	17.958	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.271	6.048	17.362	1.00	0.00
ATOM	1501	N	ALA	98	0.423	1.947	19.733	1.00	0.00



ATOM	1502	CA	ALA	98	0.442	0.643	20.377	1.00	0.00
ATOM	1504	C	ALA	98	-0.813	-0.155	20.047	1.00	0.00
ATOM	1505	O	ALA	98	-0.780	-1.378	20.030	1.00	0.00
ATOM	1503	CB	ALA	98	0.590	0.799	21.882	1.00	0.00
ATOM	1506	H	ALA	98	0.380	2.750	20.289	1.00	0.00
ATOM	1507	HA	ALA	98	1.303	0.105	20.009	1.00	0.00
ATOM	1508	1HB	ALA	98	0.791	1.833	22.119	1.00	0.00
ATOM	1509	2HB	ALA	98	1.410	0.186	22.228	1.00	0.00
ATOM	1510	3HB	ALA	98	-0.322	0.488	22.368	1.00	0.00
ATOM	1511	N	PHE	99	-1.911	0.549	19.779	1.00	0.00
ATOM	1512	CA	PHE	99	-3.175	-0.093	19.436	1.00	0.00
ATOM	1520	C	PHE	99	-2.986	-0.998	18.224	1.00	0.00
ATOM	1521	O	PHE	99	-3.260	-2.196	18.276	1.00	0.00
ATOM	1513	CB	PHE	99	-4.236	0.968	19.110	1.00	0.00
ATOM	1514	CG	PHE	99	-5.145	1.368	20.247	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.124	0.507	20.721	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.038	2.626	20.814	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.974	0.900	21.743	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.887	3.026	21.828	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.854	2.164	22.296	1.00	0.00
ATOM	1522	H	PHE	99	-1.869	1.527	19.804	1.00	0.00
ATOM	1523	HA	PHE	99	-3.492	-0.689	20.276	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.854	0.601	18.307	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.734	1.863	18.774	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.280	3.305	20.452	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.218	-0.479	20.290	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.787	4.013	22.257	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.731	0.221	22.107	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.524	2.484	23.086	1.00	0.00
ATOM	1531	N	PHE	100	-2.506	-0.407	17.138	1.00	0.00
ATOM	1532	CA	PHE	100	-2.273	-1.149	15.908	1.00	0.00
ATOM	1540	C	PHE	100	-1.011	-1.994	16.016	1.00	0.00
ATOM	1541	O	PHE	100	-0.949	-3.103	15.487	1.00	0.00
ATOM	1533	CB	PHE	100	-2.155	-0.190	14.724	1.00	0.00
ATOM	1534	CG	PHE	100	-3.457	0.060	14.023	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.399	0.907	14.577	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.738	-0.551	12.812	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.597	1.142	13.937	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.937	-0.320	12.168	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.869	0.528	12.733	1.00	0.00
ATOM	1542	H	PHE	100	-2.302	0.554	17.165	1.00	0.00
ATOM	1543	HA	PHE	100	-3.118	-1.803	15.749	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.462	-0.601	14.004	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.779	0.759	15.075	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.008	-1.213	12.371	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.189	1.390	15.520	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.146	-0.801	11.223	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.325	1.806	14.380	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.810	0.711	12.234	1.00	0.00
ATOM	1551	N	VAL	101	-0.007	-1.458	16.700	1.00	0.00
ATOM	1552	CA	VAL	101	1.261	-2.154	16.877	1.00	0.00
ATOM	1556	C	VAL	101	1.062	-3.483	17.604	1.00	0.00
ATOM	1557	O	VAL	101	1.711	-4.475	17.270	1.00	0.00
ATOM	1553	CB	VAL	101	2.289	-1.268	17.636	1.00	0.00
ATOM	1554	CG1	VAL	101	3.206	-2.093	18.533	1.00	0.00
ATOM	1555	CG2	VAL	101	3.110	-0.453	16.649	1.00	0.00
ATOM	1558	H	VAL	101	-0.121	-0.567	17.096	1.00	0.00
ATOM	1559	HA	VAL	101	1.659	-2.357	15.894	1.00	0.00
ATOM	1560	HB	VAL	101	1.740	-0.580	18.261	1.00	0.00
ATOM	1561	1HG1	VAL	101	2.674	-2.376	19.429	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.072	-1.505	18.798	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.521	-2.981	18.005	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.451	0.012	15.931	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.804	-1.101	16.134	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.658	0.311	17.182	1.00	0.00
ATOM	1567	N	PHE	102	0.158	-3.505	18.585	1.00	0.00
ATOM	1568	CA	PHE	102	-0.109	-4.722	19.340	1.00	0.00
ATOM	1576	C	PHE	102	-0.553	-5.850	18.420	1.00	0.00
ATOM	1577	O	PHE	102	-0.049	-6.971	18.511	1.00	0.00
ATOM	1569	CB	PHE	102	-1.176	-4.472	20.407	1.00	0.00
ATOM	1570	CG	PHE	102	-0.631	-4.435	21.806	1.00	0.00
ATOM	1571	CD1	PHE	102	0.047	-5.523	22.328	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.802	-3.313	22.599	1.00	0.00



ATOM	1573	CE1	PHE	102	0.546	-5.493	23.616	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.308	-3.277	23.888	1.00	0.00
ATOM	1575	CZ	PHE	102	0.367	-4.369	24.398	1.00	0.00
ATOM	1578	H	PHE	102	-0.343	-2.680	18.807	1.00	0.00
ATOM	1579	HA	PHE	102	0.810	-5.017	19.825	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.915	-5.258	20.358	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.654	-3.523	20.213	1.00	0.00
ATOM	1582	HD1	PHE	102	-1.331	-2.459	22.202	1.00	0.00
ATOM	1583	HD2	PHE	102	0.189	-6.404	21.717	1.00	0.00
ATOM	1584	HE1	PHE	102	-0.448	-2.395	24.496	1.00	0.00
ATOM	1585	HE2	PHE	102	1.074	-6.349	24.013	1.00	0.00
ATOM	1586	HZ	PHE	102	0.752	-4.344	25.406	1.00	0.00
ATOM	1587	N	GLY	103	-1.490	-5.553	17.533	1.00	0.00
ATOM	1588	CA	GLY	103	-1.976	-6.562	16.617	1.00	0.00
ATOM	1589	C	GLY	103	-1.026	-6.821	15.468	1.00	0.00
ATOM	1590	O	GLY	103	-0.841	-7.968	15.072	1.00	0.00
ATOM	1591	H	GLY	103	-1.854	-4.641	17.501	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.925	-6.251	16.221	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.116	-7.484	17.163	1.00	0.00
ATOM	1594	N	ALA	104	-0.423	-5.765	14.932	1.00	0.00
ATOM	1595	CA	ALA	104	0.513	-5.904	13.818	1.00	0.00
ATOM	1597	C	ALA	104	1.684	-6.794	14.210	1.00	0.00
ATOM	1598	O	ALA	104	2.075	-7.686	13.456	1.00	0.00
ATOM	1596	CB	ALA	104	1.008	-4.538	13.362	1.00	0.00
ATOM	1599	H	ALA	104	-0.613	-4.869	15.291	1.00	0.00
ATOM	1600	HA	ALA	104	-0.016	-6.366	12.993	1.00	0.00
ATOM	1601	1HB	ALA	104	0.857	-3.817	14.151	1.00	0.00
ATOM	1602	2HB	ALA	104	0.459	-4.229	12.483	1.00	0.00
ATOM	1603	3HB	ALA	104	2.060	-4.596	13.125	1.00	0.00
ATOM	1604	N	ALA	105	2.222	-6.571	15.402	1.00	0.00
ATOM	1605	CA	ALA	105	3.327	-7.378	15.890	1.00	0.00
ATOM	1607	C	ALA	105	2.841	-8.795	16.165	1.00	0.00
ATOM	1608	O	ALA	105	3.518	-9.772	15.839	1.00	0.00
ATOM	1606	CB	ALA	105	3.932	-6.761	17.144	1.00	0.00
ATOM	1609	H	ALA	105	1.856	-5.857	15.976	1.00	0.00
ATOM	1610	HA	ALA	105	4.087	-7.408	15.121	1.00	0.00
ATOM	1611	1HB	ALA	105	5.000	-6.658	17.015	1.00	0.00
ATOM	1612	2HB	ALA	105	3.733	-7.401	17.992	1.00	0.00
ATOM	1613	3HB	ALA	105	3.495	-5.789	17.314	1.00	0.00
ATOM	1614	N	LEU	106	1.649	-8.891	16.751	1.00	0.00
ATOM	1615	CA	LEU	106	1.038	-10.179	17.066	1.00	0.00
ATOM	1620	C	LEU	106	0.867	-11.007	15.802	1.00	0.00
ATOM	1621	O	LEU	106	1.219	-12.186	15.758	1.00	0.00
ATOM	1616	CB	LEU	106	-0.321	-9.953	17.741	1.00	0.00
ATOM	1617	CG	LEU	106	-0.623	-10.853	18.942	1.00	0.00
ATOM	1618	CD1	LEU	106	-1.152	-10.023	20.101	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.622	-11.936	18.566	1.00	0.00
ATOM	1622	H	LEU	106	1.157	-8.069	16.968	1.00	0.00
ATOM	1623	HA	LEU	106	1.692	-10.702	17.744	1.00	0.00
ATOM	1624	1HB	LEU	106	-1.098	-10.096	17.003	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.359	-8.927	18.076	1.00	0.00
ATOM	1626	HG	LEU	106	0.290	-11.333	19.263	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.843	-10.470	21.035	1.00	0.00
ATOM	1628	2HD1	LEU	106	-2.231	-9.989	20.058	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.758	-9.019	20.035	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.888	-11.836	17.525	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.509	-11.835	19.176	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.181	-12.908	18.733	1.00	0.00
ATOM	1633	N	CYS	107	0.331	-10.368	14.778	1.00	0.00
ATOM	1634	CA	CYS	107	0.099	-11.005	13.491	1.00	0.00
ATOM	1637	C	CYS	107	1.406	-11.490	12.871	1.00	0.00
ATOM	1638	O	CYS	107	1.461	-12.587	12.321	1.00	0.00
ATOM	1635	CB	CYS	107	-0.611	-10.026	12.555	1.00	0.00
ATOM	1636	SG	CYS	107	-2.353	-9.752	12.955	1.00	0.00
ATOM	1639	H	CYS	107	0.083	-9.424	14.890	1.00	0.00
ATOM	1640	HA	CYS	107	-0.540	-11.856	13.653	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.559	-10.399	11.545	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.110	-9.071	12.601	1.00	0.00
ATOM	1643	HG	CYS	107	-2.635	-10.446	14.048	1.00	0.00
ATOM	1644	N	ALA	108	2.455	-10.678	12.973	1.00	0.00
ATOM	1645	CA	ALA	108	3.760	-11.036	12.427	1.00	0.00
ATOM	1647	C	ALA	108	4.231	-12.387	12.965	1.00	0.00
ATOM	1648	O	ALA	108	4.520	-13.304	12.197	1.00	0.00



ATOM	1646	CB	ALA	108	4.782	-9.951	12.737	1.00	0.00
ATOM	1649	H	ALA	108	2.349	-9.817	13.431	1.00	0.00
ATOM	1650	HA	ALA	108	3.662	-11.105	11.353	1.00	0.00
ATOM	1651	1HB	ALA	108	4.362	-9.253	13.448	1.00	0.00
ATOM	1652	2HB	ALA	108	5.041	-9.428	11.829	1.00	0.00
ATOM	1653	3HB	ALA	108	5.669	-10.401	13.157	1.00	0.00
ATOM	1654	N	GLU	109	4.293	-12.513	14.287	1.00	0.00
ATOM	1655	CA	GLU	109	4.723	-13.759	14.916	1.00	0.00
ATOM	1661	C	GLU	109	3.699	-14.879	14.707	1.00	0.00
ATOM	1662	O	GLU	109	4.026	-16.059	14.839	1.00	0.00
ATOM	1656	CB	GLU	109	4.990	-13.554	16.407	1.00	0.00
ATOM	1657	CG	GLU	109	5.858	-14.651	17.004	1.00	0.00
ATOM	1658	CD	GLU	109	6.972	-14.120	17.882	1.00	0.00
ATOM	1659	OE1	GLU	109	7.799	-13.327	17.382	1.00	0.00
ATOM	1660	OE2	GLU	109	7.039	-14.513	19.064	1.00	0.00
ATOM	1663	H	GLU	109	4.043	-11.752	14.851	1.00	0.00
ATOM	1664	HA	GLU	109	5.646	-14.059	14.445	1.00	0.00
ATOM	1665	1HB	GLU	109	4.048	-13.539	16.934	1.00	0.00
ATOM	1666	2HB	GLU	109	5.490	-12.607	16.547	1.00	0.00
ATOM	1667	1HG	GLU	109	6.298	-15.219	16.198	1.00	0.00
ATOM	1668	2HG	GLU	109	5.234	-15.298	17.594	1.00	0.00
ATOM	1669	N	SER	110	2.470	-14.516	14.355	1.00	0.00
ATOM	1670	CA	SER	110	1.436	-15.512	14.114	1.00	0.00
ATOM	1673	C	SER	110	1.630	-16.146	12.738	1.00	0.00
ATOM	1674	O	SER	110	1.282	-17.305	12.525	1.00	0.00
ATOM	1671	CB	SER	110	0.046	-14.883	14.228	1.00	0.00
ATOM	1672	OG	SER	110	-0.198	-14.422	15.547	1.00	0.00
ATOM	1675	H	SER	110	2.259	-13.563	14.244	1.00	0.00
ATOM	1676	HA	SER	110	1.538	-16.279	14.868	1.00	0.00
ATOM	1677	1HB	SER	110	-0.701	-15.619	13.972	1.00	0.00
ATOM	1678	2HB	SER	110	-0.025	-14.045	13.549	1.00	0.00
ATOM	1679	HG	SER	110	0.408	-13.697	15.751	1.00	0.00
ATOM	1680	N	VAL	111	2.224	-15.389	11.818	1.00	0.00
ATOM	1681	CA	VAL	111	2.503	-15.894	10.476	1.00	0.00
ATOM	1685	C	VAL	111	3.789	-16.713	10.510	1.00	0.00
ATOM	1686	O	VAL	111	4.026	-17.576	9.665	1.00	0.00
ATOM	1682	CB	VAL	111	2.656	-14.748	9.444	1.00	0.00
ATOM	1683	CG1	VAL	111	2.847	-15.301	8.040	1.00	0.00
ATOM	1684	CG2	VAL	111	1.454	-13.820	9.482	1.00	0.00
ATOM	1687	H	VAL	111	2.502	-14.478	12.056	1.00	0.00
ATOM	1688	HA	VAL	111	1.683	-16.529	10.174	1.00	0.00
ATOM	1689	HB	VAL	111	3.535	-14.174	9.701	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.838	-15.056	7.687	1.00	0.00
ATOM	1691	2HG1	VAL	111	2.112	-14.867	7.379	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.727	-16.375	8.055	1.00	0.00
ATOM	1693	1HG2	VAL	111	0.992	-13.786	8.506	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.773	-12.827	9.763	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.740	-14.186	10.206	1.00	0.00
ATOM	1696	N	ASN	112	4.614	-16.430	11.512	1.00	0.00
ATOM	1697	CA	ASN	112	5.883	-17.123	11.692	1.00	0.00
ATOM	1702	C	ASN	112	5.663	-18.489	12.332	1.00	0.00
ATOM	1703	O	ASN	112	6.547	-19.345	12.320	1.00	0.00
ATOM	1698	CB	ASN	112	6.820	-16.289	12.571	1.00	0.00
ATOM	1699	CG	ASN	112	7.612	-15.260	11.784	1.00	0.00
ATOM	1700	OD1	ASN	112	8.655	-15.570	11.208	1.00	0.00
ATOM	1701	ND2	ASN	112	7.121	-14.029	11.752	1.00	0.00
ATOM	1704	H	ASN	112	4.357	-15.734	12.150	1.00	0.00
ATOM	1705	HA	ASN	112	6.335	-17.257	10.721	1.00	0.00
ATOM	1706	1HB	ASN	112	7.517	-16.948	13.068	1.00	0.00
ATOM	1707	2HB	ASN	112	6.236	-15.769	13.315	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.278	-13.853	12.226	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.619	-13.342	11.267	1.00	0.00
ATOM	1710	N	LYS	113	4.479	-18.686	12.890	1.00	0.00
ATOM	1711	CA	LYS	113	4.133	-19.942	13.535	1.00	0.00
ATOM	1717	C	LYS	113	2.829	-20.484	12.964	1.00	0.00
ATOM	1718	O	LYS	113	2.324	-19.975	11.965	1.00	0.00
ATOM	1712	CB	LYS	113	3.997	-19.739	15.049	1.00	0.00
ATOM	1713	CG	LYS	113	5.301	-19.903	15.814	1.00	0.00
ATOM	1714	CD	LYS	113	5.717	-18.608	16.501	1.00	0.00
ATOM	1715	CE	LYS	113	4.928	-18.369	17.781	1.00	0.00
ATOM	1716	NZ	LYS	113	5.713	-18.719	18.997	1.00	0.00
ATOM	1719	H	LYS	113	3.814	-17.966	12.863	1.00	0.00
ATOM	1720	HA	LYS	113	4.924	-20.651	13.341	1.00	0.00



ATOM	1721	1HB	LYS	113	3.286	-20.455	15.431	1.00	0.00
ATOM	1722	2HB	LYS	113	3.623	-18.743	15.231	1.00	0.00
ATOM	1723	1HG	LYS	113	6.079	-20.199	15.125	1.00	0.00
ATOM	1724	2HG	LYS	113	5.173	-20.670	16.565	1.00	0.00
ATOM	1725	1HD	LYS	113	5.547	-17.783	15.825	1.00	0.00
ATOM	1726	2HD	LYS	113	6.768	-18.664	16.744	1.00	0.00
ATOM	1727	1HE	LYS	113	4.032	-18.974	17.754	1.00	0.00
ATOM	1728	2HE	LYS	113	4.654	-17.326	17.830	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.338	-19.533	18.802	1.00	0.00
ATOM	1730	2HZ	LYS	113	5.075	-18.970	19.777	1.00	0.00
ATOM	1731	3HZ	LYS	113	6.302	-17.908	19.293	1.00	0.00
ATOM	1732	N	GLU	114	2.277	-21.505	13.606	1.00	0.00
ATOM	1733	CA	GLU	114	1.025	-22.098	13.159	1.00	0.00
ATOM	1739	C	GLU	114	-0.158	-21.335	13.748	1.00	0.00
ATOM	1740	O	GLU	114	-0.966	-21.884	14.500	1.00	0.00
ATOM	1734	CB	GLU	114	0.963	-23.572	13.555	1.00	0.00
ATOM	1735	CG	GLU	114	1.821	-24.469	12.678	1.00	0.00
ATOM	1736	CD	GLU	114	2.023	-25.842	13.280	1.00	0.00
ATOM	1737	OE1	GLU	114	2.876	-25.983	14.176	1.00	0.00
ATOM	1738	OE2	GLU	114	1.322	-26.789	12.861	1.00	0.00
ATOM	1741	H	GLU	114	2.717	-21.864	14.400	1.00	0.00
ATOM	1742	HA	GLU	114	0.987	-22.019	12.083	1.00	0.00
ATOM	1743	1HB	GLU	114	-0.061	-23.910	13.487	1.00	0.00
ATOM	1744	2HB	GLU	114	1.300	-23.674	14.576	1.00	0.00
ATOM	1745	1HG	GLU	114	2.788	-24.004	12.546	1.00	0.00
ATOM	1746	2HG	GLU	114	1.341	-24.580	11.717	1.00	0.00
ATOM	1747	N	MET	115	-0.242	-20.057	13.412	1.00	0.00
ATOM	1748	CA	MET	115	-1.308	-19.202	13.907	1.00	0.00
ATOM	1753	C	MET	115	-1.863	-18.351	12.772	1.00	0.00
ATOM	1754	O	MET	115	-2.294	-17.217	12.984	1.00	0.00
ATOM	1749	CB	MET	115	-0.793	-18.301	15.033	1.00	0.00
ATOM	1750	CG	MET	115	-0.598	-19.020	16.358	1.00	0.00
ATOM	1751	SD	MET	115	1.127	-19.047	16.890	1.00	0.00
ATOM	1752	CE	MET	115	1.228	-20.675	17.627	1.00	0.00
ATOM	1755	H	MET	115	0.443	-19.674	12.816	1.00	0.00
ATOM	1756	HA	MET	115	-2.095	-19.835	14.288	1.00	0.00
ATOM	1757	1HB	MET	115	-1.499	-17.498	15.186	1.00	0.00
ATOM	1758	2HB	MET	115	0.156	-17.881	14.737	1.00	0.00
ATOM	1759	1HG	MET	115	-0.944	-20.038	16.253	1.00	0.00
ATOM	1760	2HG	MET	115	-1.186	-18.519	17.114	1.00	0.00
ATOM	1761	1HE	MET	115	0.261	-21.153	17.578	1.00	0.00
ATOM	1762	2HE	MET	115	1.532	-20.584	18.658	1.00	0.00
ATOM	1763	3HE	MET	115	1.950	-21.269	17.087	1.00	0.00
ATOM	1764	N	GLU	116	-1.845	-18.909	11.565	1.00	0.00
ATOM	1765	CA	GLU	116	-2.338	-18.213	10.378	1.00	0.00
ATOM	1771	C	GLU	116	-3.784	-17.721	10.552	1.00	0.00
ATOM	1772	O	GLU	116	-4.064	-16.544	10.317	1.00	0.00
ATOM	1766	CB	GLU	116	-2.226	-19.105	9.138	1.00	0.00
ATOM	1767	CG	GLU	116	-0.839	-19.692	8.934	1.00	0.00
ATOM	1768	CD	GLU	116	-0.761	-21.141	9.361	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.291	-21.471	10.443	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.178	-21.953	8.610	1.00	0.00
ATOM	1773	H	GLU	116	-1.484	-19.823	11.466	1.00	0.00
ATOM	1774	HA	GLU	116	-1.707	-17.349	10.232	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.478	-18.523	8.264	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.928	-19.921	9.231	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.130	-19.121	9.515	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.584	-19.627	7.887	1.00	0.00
ATOM	1779	N	PRO	117	-4.736	-18.593	10.957	1.00	0.00
ATOM	1780	CA	PRO	117	-6.137	-18.185	11.140	1.00	0.00
ATOM	1784	C	PRO	117	-6.294	-17.100	12.204	1.00	0.00
ATOM	1785	O	PRO	117	-7.226	-16.302	12.159	1.00	0.00
ATOM	1781	CB	PRO	117	-6.842	-19.471	11.591	1.00	0.00
ATOM	1782	CG	PRO	117	-5.943	-20.576	11.161	1.00	0.00
ATOM	1783	CD	PRO	117	-4.551	-20.028	11.255	1.00	0.00
ATOM	1786	HA	PRO	117	-6.570	-17.841	10.212	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.808	-19.540	11.112	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.967	-19.457	12.663	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.166	-20.857	10.142	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.059	-21.423	11.820	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.910	-20.494	10.521	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.154	-20.169	12.251	1.00	0.00
ATOM	1793	N	LEU	118	-5.369	-17.080	13.159	1.00	0.00



ATOM	1794	CA	LEU	118	-5.398	-16.103	14.243	1.00	0.00
ATOM	1799	C	LEU	118	-5.040	-14.704	13.746	1.00	0.00
ATOM	1800	O	LEU	118	-5.463	-13.709	14.331	1.00	0.00
ATOM	1795	CB	LEU	118	-4.442	-16.523	15.360	1.00	0.00
ATOM	1796	CG	LEU	118	-5.066	-17.378	16.461	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.983	-18.855	16.105	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.377	-17.109	17.790	1.00	0.00
ATOM	1801	H	LEU	118	-4.646	-17.742	13.133	1.00	0.00
ATOM	1802	HA	LEU	118	-6.403	-16.082	14.637	1.00	0.00
ATOM	1803	1HB	LEU	118	-4.040	-15.631	15.817	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.627	-17.079	14.920	1.00	0.00
ATOM	1805	HG	LEU	118	-6.109	-17.118	16.565	1.00	0.00
ATOM	1806	1HD1	LEU	118	-5.206	-18.985	15.055	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.698	-19.409	16.694	1.00	0.00
ATOM	1808	3HD1	LEU	118	-3.987	-19.220	16.308	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.461	-16.059	18.032	1.00	0.00
ATOM	1810	2HD2	LEU	118	-3.334	-17.379	17.716	1.00	0.00
ATOM	1811	3HD2	LEU	118	-4.847	-17.695	18.565	1.00	0.00
ATOM	1812	N	VAL	119	-4.265	-14.633	12.669	1.00	0.00
ATOM	1813	CA	VAL	119	-3.853	-13.350	12.097	1.00	0.00
ATOM	1817	C	VAL	119	-5.066	-12.509	11.712	1.00	0.00
ATOM	1818	O	VAL	119	-5.196	-11.360	12.139	1.00	0.00
ATOM	1814	CB	VAL	119	-2.958	-13.553	10.853	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.630	-12.222	10.191	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.685	-14.293	11.226	1.00	0.00
ATOM	1819	H	VAL	119	-3.960	-15.465	12.246	1.00	0.00
ATOM	1820	HA	VAL	119	-3.283	-12.816	12.846	1.00	0.00
ATOM	1821	HB	VAL	119	-3.501	-14.156	10.141	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.687	-11.431	10.924	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.337	-12.031	9.398	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.631	-12.262	9.781	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.857	-14.880	12.116	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.895	-13.580	11.413	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.396	-14.945	10.415	1.00	0.00
ATOM	1828	N	GLY	120	-5.957	-13.090	10.916	1.00	0.00
ATOM	1829	CA	GLY	120	-7.152	-12.379	10.501	1.00	0.00
ATOM	1830	C	GLY	120	-8.027	-12.017	11.679	1.00	0.00
ATOM	1831	O	GLY	120	-8.678	-10.974	11.678	1.00	0.00
ATOM	1832	H	GLY	120	-5.807	-14.011	10.615	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.714	-12.994	9.822	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.860	-11.472	9.991	1.00	0.00
ATOM	1835	N	GLN	121	-8.020	-12.872	12.697	1.00	0.00
ATOM	1836	CA	GLN	121	-8.800	-12.629	13.900	1.00	0.00
ATOM	1842	C	GLN	121	-8.301	-11.371	14.591	1.00	0.00
ATOM	1843	O	GLN	121	-9.067	-10.457	14.849	1.00	0.00
ATOM	1837	CB	GLN	121	-8.711	-13.816	14.856	1.00	0.00
ATOM	1838	CG	GLN	121	-9.185	-15.126	14.258	1.00	0.00
ATOM	1839	CD	GLN	121	-9.708	-16.088	15.306	1.00	0.00
ATOM	1840	OE1	GLN	121	-8.970	-16.531	16.186	1.00	0.00
ATOM	1841	NE2	GLN	121	-10.985	-16.414	15.218	1.00	0.00
ATOM	1844	H	GLN	121	-7.465	-13.676	12.641	1.00	0.00
ATOM	1845	HA	GLN	121	-9.830	-12.480	13.610	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.315	-13.605	15.726	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.685	-13.937	15.165	1.00	0.00
ATOM	1848	1HG	GLN	121	-8.358	-15.592	13.743	1.00	0.00
ATOM	1849	2HG	GLN	121	-9.976	-14.920	13.553	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.519	-16.018	14.488	1.00	0.00
ATOM	1851	2HE2	GLN	121	-11.352	-17.036	15.880	1.00	0.00
ATOM	1852	N	VAL	122	-7.008	-11.315	14.866	1.00	0.00
ATOM	1853	CA	VAL	122	-6.423	-10.146	15.510	1.00	0.00
ATOM	1857	C	VAL	122	-6.694	-8.897	14.678	1.00	0.00
ATOM	1858	O	VAL	122	-6.905	-7.808	15.216	1.00	0.00
ATOM	1854	CB	VAL	122	-4.900	-10.320	15.714	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.307	-9.129	16.447	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.600	-11.607	16.467	1.00	0.00
ATOM	1859	H	VAL	122	-6.430	-12.072	14.620	1.00	0.00
ATOM	1860	HA	VAL	122	-6.899	-10.022	16.480	1.00	0.00
ATOM	1861	HB	VAL	122	-4.432	-10.386	14.740	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.394	-8.247	15.830	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.266	-9.319	16.662	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.842	-8.974	17.373	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.103	-11.591	17.422	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.536	-11.694	16.622	1.00	0.00



ATOM	1867	3HG2	VAL	122	-4.951	-12.451	15.890	1.00	0.00
ATOM	1868	N	GLN	123	-6.718	-9.072	13.363	1.00	0.00
ATOM	1869	CA	GLN	123	-6.992	-7.973	12.454	1.00	0.00
ATOM	1875	C	GLN	123	-8.412	-7.452	12.656	1.00	0.00
ATOM	1876	O	GLN	123	-8.630	-6.241	12.750	1.00	0.00
ATOM	1870	CB	GLN	123	-6.796	-8.418	11.001	1.00	0.00
ATOM	1871	CG	GLN	123	-6.334	-7.300	10.083	1.00	0.00
ATOM	1872	CD	GLN	123	-5.971	-7.795	8.699	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.684	-8.603	8.106	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.856	-7.313	8.174	1.00	0.00
ATOM	1877	H	GLN	123	-6.563	-9.970	12.998	1.00	0.00
ATOM	1878	HA	GLN	123	-6.298	-7.177	12.678	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.733	-8.801	10.624	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.059	-9.209	10.973	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.466	-6.827	10.519	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.130	-6.575	9.991	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.337	-6.671	8.704	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.597	-7.613	7.280	1.00	0.00
ATOM	1885	N	GLU	124	-9.377	-8.363	12.734	1.00	0.00
ATOM	1886	CA	GLU	124	-10.763	-7.970	12.931	1.00	0.00
ATOM	1892	C	GLU	124	-11.001	-7.515	14.368	1.00	0.00
ATOM	1893	O	GLU	124	-11.732	-6.555	14.585	1.00	0.00
ATOM	1887	CB	GLU	124	-11.728	-9.092	12.545	1.00	0.00
ATOM	1888	CG	GLU	124	-11.447	-10.407	13.235	1.00	0.00
ATOM	1889	CD	GLU	124	-12.465	-11.475	12.896	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.138	-11.349	11.849	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.603	-12.442	13.673	1.00	0.00
ATOM	1894	H	GLU	124	-9.151	-9.319	12.661	1.00	0.00
ATOM	1895	HA	GLU	124	-10.946	-7.126	12.282	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.664	-9.250	11.477	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.734	-8.788	12.794	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.450	-10.241	14.304	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.468	-10.752	12.933	1.00	0.00
ATOM	1900	N	TRP	125	-10.364	-8.173	15.350	1.00	0.00
ATOM	1901	CA	TRP	125	-10.524	-7.764	16.752	1.00	0.00
ATOM	1912	C	TRP	125	-10.123	-6.302	16.885	1.00	0.00
ATOM	1913	O	TRP	125	-10.719	-5.533	17.639	1.00	0.00
ATOM	1902	CB	TRP	125	-9.634	-8.575	17.720	1.00	0.00
ATOM	1903	CG	TRP	125	-9.772	-10.071	17.692	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.819	-10.824	17.234	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.792	-11.001	18.166	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.528	-12.166	17.376	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.286	-12.294	17.938	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.532	-10.857	18.753	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.562	-13.439	18.268	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.818	-11.991	19.086	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.331	-13.268	18.836	1.00	0.00
ATOM	1914	H	TRP	125	-9.764	-8.931	15.126	1.00	0.00
ATOM	1915	HA	TRP	125	-11.563	-7.871	17.021	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.832	-8.248	18.726	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.604	-8.353	17.492	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.728	-10.416	16.819	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.113	-12.909	17.117	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.124	-9.879	18.973	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.945	-14.432	18.080	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.841	-11.897	19.538	1.00	0.00
ATOM	1923	KH2	TRP	125	-6.741	-14.128	19.124	1.00	0.00
ATOM	1924	N	MET	126	-9.092	-5.944	16.135	1.00	0.00
ATOM	1925	CA	MET	126	-8.560	-4.590	16.145	1.00	0.00
ATOM	1930	C	MET	126	-9.489	-3.610	15.442	1.00	0.00
ATOM	1931	O	MET	126	-9.917	-2.617	16.031	1.00	0.00
ATOM	1926	CB	MET	126	-7.189	-4.570	15.469	1.00	0.00
ATOM	1927	CG	MET	126	-6.145	-3.746	16.202	1.00	0.00
ATOM	1928	SD	MET	126	-4.670	-3.451	15.204	1.00	0.00
ATOM	1929	CE	MET	126	-4.438	-5.056	14.446	1.00	0.00
ATOM	1932	H	MET	126	-8.669	-6.626	15.557	1.00	0.00
ATOM	1933	HA	MET	126	-8.451	-4.283	17.173	1.00	0.00
ATOM	1934	1HB	MET	126	-7.300	-4.170	14.473	1.00	0.00
ATOM	1935	2HB	MET	126	-6.826	-5.586	15.400	1.00	0.00
ATOM	1936	1HG	MET	126	-5.856	-4.271	17.100	1.00	0.00
ATOM	1937	2HG	MET	126	-6.578	-2.793	16.468	1.00	0.00
ATOM	1938	1HE	MET	126	-5.114	-5.767	14.897	1.00	0.00
ATOM	1939	2HE	MET	126	-3.419	-5.381	14.596	1.00	0.00



ATOM	1940	3HE	MET	126	-4.643	-4.987	13.388	1.00	0.00
ATOM	1941	N	VAL	127	-9.781	-3.880	14.175	1.00	0.00
ATOM	1942	CA	VAL	127	-10.637	-2.996	13.392	1.00	0.00
ATOM	1946	C	VAL	127	-12.041	-2.881	13.990	1.00	0.00
ATOM	1947	O	VAL	127	-12.675	-1.833	13.877	1.00	0.00
ATOM	1943	CB	VAL	127	-10.704	-3.416	11.900	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.683	-4.558	11.677	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.067	-2.221	11.030	1.00	0.00
ATOM	1948	H	VAL	127	-9.397	-4.680	13.754	1.00	0.00
ATOM	1949	HA	VAL	127	-10.189	-2.014	13.429	1.00	0.00
ATOM	1950	HB	VAL	127	-9.719	-3.754	11.603	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.138	-5.484	11.567	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.255	-4.368	10.781	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.350	-4.630	12.523	1.00	0.00
ATOM	1954	1HG2	VAL	127	-12.106	-2.287	10.745	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.450	-2.218	10.144	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.902	-1.309	11.586	1.00	0.00
ATOM	1957	N	GLU	128	-12.517	-3.935	14.652	1.00	0.00
ATOM	1958	CA	GLU	128	-13.835	-3.893	15.267	1.00	0.00
ATOM	1964	C	GLU	128	-13.833	-2.931	16.445	1.00	0.00
ATOM	1965	O	GLU	128	-14.685	-2.044	16.540	1.00	0.00
ATOM	1959	CB	GLU	128	-14.270	-5.288	15.722	1.00	0.00
ATOM	1960	CG	GLU	128	-15.051	-6.059	14.669	1.00	0.00
ATOM	1961	CD	GLU	128	-16.025	-5.180	13.912	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.821	-4.477	14.560	1.00	0.00
ATOM	1963	OE2	GLU	128	-15.987	-5.182	12.664	1.00	0.00
ATOM	1966	H	GLU	128	-11.969	-4.754	14.738	1.00	0.00
ATOM	1967	HA	GLU	128	-14.530	-3.528	14.528	1.00	0.00
ATOM	1968	1HB	GLU	128	-14.892	-5.188	16.599	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.390	-5.860	15.978	1.00	0.00
ATOM	1970	1HG	GLU	128	-15.606	-6.849	15.154	1.00	0.00
ATOM	1971	2HG	GLU	128	-14.355	-6.491	13.963	1.00	0.00
ATOM	1972	N	TYR	129	-12.864	-3.095	17.333	1.00	0.00
ATOM	1973	CA	TYR	129	-12.746	-2.232	18.502	1.00	0.00
ATOM	1982	C	TYR	129	-12.504	-0.784	18.093	1.00	0.00
ATOM	1983	O	TYR	129	-12.904	0.153	18.788	1.00	0.00
ATOM	1974	CB	TYR	129	-11.588	-2.699	19.382	1.00	0.00
ATOM	1975	CG	TYR	129	-11.810	-2.429	20.854	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.751	-3.149	21.578	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.083	-1.447	21.515	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.964	-2.896	22.920	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.291	-1.188	22.856	1.00	0.00
ATOM	1980	CZ	TYR	129	-12.229	-1.914	23.554	1.00	0.00
ATOM	1981	OH	TYR	129	-12.441	-1.646	24.887	1.00	0.00
ATOM	1984	H	TYR	129	-12.206	-3.812	17.199	1.00	0.00
ATOM	1985	HA	TYR	129	-13.664	-2.294	19.063	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.688	-2.182	19.082	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.446	-3.761	19.248	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.347	-0.878	20.965	1.00	0.00
ATOM	1989	HD2	TYR	129	-13.323	-3.916	21.074	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.715	-0.420	23.352	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.698	-3.470	23.466	1.00	0.00
ATOM	1992	HH	TYR	129	-12.477	-2.480	25.388	1.00	0.00
ATOM	1993	N	LEU	130	-11.831	-0.610	16.970	1.00	0.00
ATOM	1994	CA	LEU	130	-11.506	0.716	16.475	1.00	0.00
ATOM	1999	C	LEU	130	-12.705	1.411	15.839	1.00	0.00
ATOM	2000	O	LEU	130	-13.038	2.532	16.208	1.00	0.00
ATOM	1995	CB	LEU	130	-10.358	0.645	15.477	1.00	0.00
ATOM	1996	CG	LEU	130	-9.034	1.204	15.989	1.00	0.00
ATOM	1997	CD1	LEU	130	-8.000	0.098	16.119	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.538	2.306	15.067	1.00	0.00
ATOM	2001	H	LEU	130	-11.529	-1.403	16.468	1.00	0.00
ATOM	2002	HA	LEU	130	-11.182	1.306	17.322	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.642	1.204	14.601	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.208	-0.390	15.198	1.00	0.00
ATOM	2005	HG	LEU	130	-9.188	1.631	16.970	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.502	-0.855	16.213	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.393	0.274	16.995	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.372	0.089	15.241	1.00	0.00
ATOM	2009	1HD2	LEU	130	-8.114	3.105	15.657	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.365	2.686	14.487	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.784	1.908	14.404	1.00	0.00
ATOM	2012	N	GLU	131	-13.339	0.761	14.878	1.00	0.00



ATOM	2013	CA	GLU	131	-14.485	1.349	14.188	1.00	0.00
ATOM	2019	C	GLU	131	-15.636	1.643	15.146	1.00	0.00
ATOM	2020	O	GLU	131	-16.361	2.625	14.981	1.00	0.00
ATOM	2014	CB	GLU	131	-14.965	0.420	13.073	1.00	0.00
ATOM	2015	CG	GLU	131	-14.341	0.734	11.727	1.00	0.00
ATOM	2016	CD	GLU	131	-14.651	2.141	11.256	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.828	2.426	10.951	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.717	2.968	11.191	1.00	0.00
ATOM	2021	H	GLU	131	-13.025	-0.132	14.608	1.00	0.00
ATOM	2022	HA	GLU	131	-14.159	2.276	13.747	1.00	0.00
ATOM	2023	1HB	GLU	131	-16.038	0.511	12.979	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.720	-0.599	13.333	1.00	0.00
ATOM	2025	1HG	GLU	131	-14.713	0.033	10.995	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.269	0.630	11.810	1.00	0.00
ATOM	2027	N	THR	132	-15.815	0.781	16.130	1.00	0.00
ATOM	2028	CA	THR	132	-16.900	0.935	17.087	1.00	0.00
ATOM	2032	C	THR	132	-16.625	1.992	18.165	1.00	0.00
ATOM	2033	O	THR	132	-17.548	2.670	18.613	1.00	0.00
ATOM	2029	CB	THR	132	-17.216	-0.410	17.765	1.00	0.00
ATOM	2030	OG1	THR	132	-17.221	-1.455	16.784	1.00	0.00
ATOM	2031	CG2	THR	132	-18.567	-0.369	18.466	1.00	0.00
ATOM	2034	H	THR	132	-15.219	0.007	16.201	1.00	0.00
ATOM	2035	HA	THR	132	-17.778	1.234	16.532	1.00	0.00
ATOM	2036	HB	THR	132	-16.449	-0.614	18.499	1.00	0.00
ATOM	2037	HG1	THR	132	-16.309	-1.697	16.567	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.467	-0.761	19.467	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.276	-0.967	17.914	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.918	0.652	18.512	1.00	0.00
ATOM	2041	N	ARG	133	-15.379	2.116	18.622	1.00	0.00
ATOM	2042	CA	ARG	133	-15.089	3.078	19.687	1.00	0.00
ATOM	2050	C	ARG	133	-13.957	4.050	19.362	1.00	0.00
ATOM	2051	O	ARG	133	-14.071	5.241	19.653	1.00	0.00
ATOM	2043	CB	ARG	133	-14.761	2.344	20.996	1.00	0.00
ATOM	2044	CG	ARG	133	-15.363	0.949	21.108	1.00	0.00
ATOM	2045	CD	ARG	133	-15.207	0.386	22.513	1.00	0.00
ATOM	2046	NE	ARG	133	-16.495	0.037	23.109	1.00	0.00
ATOM	2047	CZ	ARG	133	-16.994	0.619	24.200	1.00	0.00
ATOM	2048	NH1	ARG	133	-16.298	1.554	24.830	1.00	0.00
ATOM	2049	NH2	ARG	133	-18.179	0.252	24.673	1.00	0.00
ATOM	2052	H	ARG	133	-14.666	1.543	18.269	1.00	0.00
ATOM	2053	HA	ARG	133	-15.984	3.660	19.842	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.123	2.935	21.822	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.688	2.251	21.078	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.866	0.293	20.409	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.415	1.003	20.868	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.724	1.128	23.133	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.589	-0.499	22.467	1.00	0.00
ATOM	2060	HE	ARG	133	-17.019	-0.675	22.661	1.00	0.00
ATOM	2061	1HH1	ARG	133	-15.396	1.822	24.493	1.00	0.00
ATOM	2062	2HH1	ARG	133	-16.674	2.003	25.656	1.00	0.00
ATOM	2063	1HH2	ARG	133	-18.708	-0.475	24.214	1.00	0.00
ATOM	2064	2HH2	ARG	133	-18.556	0.697	25.488	1.00	0.00
ATOM	2065	N	LEU	134	-12.862	3.560	18.795	1.00	0.00
ATOM	2066	CA	LEU	134	-11.724	4.428	18.486	1.00	0.00
ATOM	2071	C	LEU	134	-12.129	5.566	17.554	1.00	0.00
ATOM	2072	O	LEU	134	-11.777	6.723	17.791	1.00	0.00
ATOM	2067	CB	LEU	134	-10.583	3.627	17.866	1.00	0.00
ATOM	2068	CG	LEU	134	-9.364	3.415	18.766	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.656	4.734	19.037	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.769	2.742	20.067	1.00	0.00
ATOM	2073	H	LEU	134	-12.806	2.598	18.592	1.00	0.00
ATOM	2074	HA	LEU	134	-11.382	4.856	19.417	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.255	4.141	16.974	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.966	2.659	17.581	1.00	0.00
ATOM	2077	HG	LEU	134	-8.667	2.763	18.258	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.920	4.912	18.263	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.163	4.691	19.998	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.376	5.538	19.038	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.388	1.883	19.851	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.322	3.440	20.678	1.00	0.00
ATOM	2083	3HD2	LEU	134	-8.885	2.421	20.599	1.00	0.00
ATOM	2084	N	ALA	135	-12.866	5.226	16.499	1.00	0.00
ATOM	2085	CA	ALA	135	-13.329	6.199	15.522	1.00	0.00



ATOM	2087	C	ALA	135	-14.041	7.379	16.182	1.00	0.00
ATOM	2088	O	ALA	135	-13.906	8.512	15.726	1.00	0.00
ATOM	2086	CB	ALA	135	-14.245	5.528	14.513	1.00	0.00
ATOM	2089	H	ALA	135	-13.102	4.282	16.371	1.00	0.00
ATOM	2090	HA	ALA	135	-12.464	6.569	14.991	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.905	5.752	13.513	1.00	0.00
ATOM	2092	2HB	ALA	135	-15.252	5.898	14.642	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.232	4.461	14.668	1.00	0.00
ATOM	2094	N	ASP	136	-14.782	7.121	17.262	1.00	0.00
ATOM	2095	CA	ASP	136	-15.486	8.191	17.967	1.00	0.00
ATOM	2100	C	ASP	136	-14.495	9.149	18.607	1.00	0.00
ATOM	2101	O	ASP	136	-14.561	10.358	18.374	1.00	0.00
ATOM	2096	CB	ASP	136	-16.437	7.626	19.021	1.00	0.00
ATOM	2097	CG	ASP	136	-17.152	8.715	19.798	1.00	0.00
ATOM	2098	OD1	ASP	136	-17.960	9.455	19.195	1.00	0.00
ATOM	2099	OD2	ASP	136	-16.911	8.840	21.014	1.00	0.00
ATOM	2102	H	ASP	136	-14.845	6.197	17.596	1.00	0.00
ATOM	2103	HA	ASP	136	-16.056	8.745	17.236	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.874	7.023	19.720	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.180	7.011	18.536	1.00	0.00
ATOM	2106	N	TRP	137	-13.555	8.610	19.379	1.00	0.00
ATOM	2107	CA	TRP	137	-12.537	9.430	20.012	1.00	0.00
ATOM	2118	C	TRP	137	-11.764	10.197	18.941	1.00	0.00
ATOM	2119	O	TRP	137	-11.555	11.405	19.049	1.00	0.00
ATOM	2108	CB	TRP	137	-11.584	8.546	20.829	1.00	0.00
ATOM	2109	CG	TRP	137	-10.464	9.303	21.477	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.406	9.730	22.770	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.238	9.718	20.864	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.229	10.397	22.995	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.496	10.400	21.840	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.698	9.580	19.582	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.248	10.945	21.573	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.459	10.122	19.319	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.743	10.794	20.312	1.00	0.00
ATOM	2120	H	TRP	137	-13.531	7.636	19.511	1.00	0.00
ATOM	2121	HA	TRP	137	-13.028	10.136	20.666	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.154	7.798	20.179	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.146	8.055	21.609	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.181	9.560	23.500	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.955	10.809	23.849	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.239	9.064	18.799	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.682	11.457	22.326	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.027	10.022	18.334	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.774	11.203	20.063	1.00	0.00
ATOM	2130	N	ILE	138	-11.354	9.474	17.906	1.00	0.00
ATOM	2131	CA	ILE	138	-10.601	10.050	16.802	1.00	0.00
ATOM	2136	C	ILE	138	-11.353	11.205	16.146	1.00	0.00
ATOM	2137	O	ILE	138	-10.784	12.277	15.923	1.00	0.00
ATOM	2132	CB	ILE	138	-10.264	8.966	15.747	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.110	8.094	16.247	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.911	9.593	14.405	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.178	6.659	15.774	1.00	0.00
ATOM	2138	H	ILE	138	-11.564	8.512	17.888	1.00	0.00
ATOM	2139	HA	ILE	138	-9.670	10.426	17.202	1.00	0.00
ATOM	2140	HB	ILE	138	-11.140	8.348	15.608	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.118	8.087	17.327	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.176	8.512	15.902	1.00	0.00
ATOM	2143	1HG2	ILE	138	-10.812	9.950	13.924	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.437	8.854	13.776	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.236	10.422	14.561	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.409	6.083	16.266	1.00	0.00
ATOM	2147	2HD1	ILE	138	-9.027	6.622	14.704	1.00	0.00
ATOM	2148	3HD1	ILE	138	-10.146	6.246	16.015	1.00	0.00
ATOM	2149	N	HIS	139	-12.628	10.984	15.846	1.00	0.00
ATOM	2150	CA	HIS	139	-13.459	12.005	15.212	1.00	0.00
ATOM	2157	C	HIS	139	-13.625	13.226	16.109	1.00	0.00
ATOM	2158	O	HIS	139	-13.738	14.347	15.625	1.00	0.00
ATOM	2151	CB	HIS	139	-14.832	11.430	14.853	1.00	0.00
ATOM	2152	CG	HIS	139	-14.827	10.617	13.595	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.677	9.556	13.375	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.053	10.712	12.487	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.425	9.033	12.187	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.444	9.715	11.629	1.00	0.00



ATOM	2159	H	HIS	139	-13.023	10.108	16.055	1.00	0.00
ATOM	2160	HA	HIS	139	-12.964	12.311	14.304	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.533	12.244	14.722	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.170	10.796	15.660	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.363	9.219	14.007	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.268	11.434	12.316	1.00	0.00
ATOM	2165	HE1	HIS	139	-15.937	8.190	11.746	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.183	9.653	10.679	1.00	0.00
ATOM	2167	N	SER	140	-13.650	12.998	17.413	1.00	0.00
ATOM	2168	CA	SER	140	-13.820	14.082	18.371	1.00	0.00
ATOM	2171	C	SER	140	-12.504	14.812	18.656	1.00	0.00
ATOM	2172	O	SER	140	-12.510	15.932	19.165	1.00	0.00
ATOM	2169	CB	SER	140	-14.410	13.529	19.669	1.00	0.00
ATOM	2170	OG	SER	140	-15.484	12.646	19.398	1.00	0.00
ATOM	2173	H	SER	140	-13.569	12.073	17.740	1.00	0.00
ATOM	2174	HA	SER	140	-14.517	14.787	17.948	1.00	0.00
ATOM	2175	1HB	SER	140	-14.778	14.343	20.275	1.00	0.00
ATOM	2176	2HB	SER	140	-13.644	12.992	20.212	1.00	0.00
ATOM	2177	HG	SER	140	-15.137	11.821	19.038	1.00	0.00
ATOM	2178	N	SER	141	-11.383	14.179	18.336	1.00	0.00
ATOM	2179	CA	SER	141	-10.077	14.786	18.572	1.00	0.00
ATOM	2182	C	SER	141	-9.678	15.715	17.433	1.00	0.00
ATOM	2183	O	SER	141	-9.366	16.884	17.649	1.00	0.00
ATOM	2180	CB	SER	141	-9.007	13.708	18.767	1.00	0.00
ATOM	2181	OG	SER	141	-7.902	14.210	19.501	1.00	0.00
ATOM	2184	H	SER	141	-11.433	13.284	17.939	1.00	0.00
ATOM	2185	HA	SER	141	-10.147	15.365	19.473	1.00	0.00
ATOM	2186	1HB	SER	141	-8.659	13.369	17.802	1.00	0.00
ATOM	2187	2HB	SER	141	-9.431	12.875	19.308	1.00	0.00
ATOM	2188	HG	SER	141	-7.279	14.639	18.887	1.00	0.00
ATOM	2189	N	GLY	142	-9.684	15.180	16.231	1.00	0.00
ATOM	2190	CA	GLY	142	-9.308	15.953	15.065	1.00	0.00
ATOM	2191	C	GLY	142	-9.384	15.116	13.821	1.00	0.00
ATOM	2192	O	GLY	142	-9.425	15.629	12.701	1.00	0.00
ATOM	2193	H	GLY	142	-9.942	14.241	16.132	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.297	16.308	15.190	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.970	16.796	14.966	1.00	0.00
ATOM	2196	N	GLY	143	-9.412	13.811	14.027	1.00	0.00
ATOM	2197	CA	GLY	143	-9.491	12.886	12.924	1.00	0.00
ATOM	2198	C	GLY	143	-8.160	12.280	12.582	1.00	0.00
ATOM	2199	O	GLY	143	-7.128	12.700	13.104	1.00	0.00
ATOM	2200	H	GLY	143	-9.383	13.471	14.951	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.865	13.402	12.059	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.170	12.098	13.183	1.00	0.00
ATOM	2203	N	TRP	144	-8.182	11.296	11.698	1.00	0.00
ATOM	2204	CA	TRP	144	-6.966	10.625	11.271	1.00	0.00
ATOM	2215	C	TRP	144	-6.010	11.630	10.643	1.00	0.00
ATOM	2216	O	TRP	144	-4.794	11.469	10.705	1.00	0.00
ATOM	2205	CB	TRP	144	-7.311	9.501	10.291	1.00	0.00
ATOM	2206	CG	TRP	144	-7.977	8.331	10.957	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.321	8.081	11.040	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.329	7.261	11.643	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.542	6.917	11.743	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.333	6.395	12.118	1.00	0.00
ATOM	2211	CE3	TRP	144	-5.991	6.950	11.902	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.036	5.238	12.835	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.702	5.804	12.613	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.720	4.959	13.071	1.00	0.00
ATOM	2217	H	TRP	144	-9.043	11.015	11.316	1.00	0.00
ATOM	2218	HA	TRP	144	-6.494	10.201	12.143	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.404	9.150	9.823	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.980	9.884	9.534	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.086	8.716	10.617	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.422	6.519	11.939	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.191	7.589	11.556	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.809	4.576	13.195	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.669	5.543	12.819	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.445	4.072	13.625	1.00	0.00
ATOM	2227	N	ALA	145	-6.584	12.689	10.073	1.00	0.00
ATOM	2228	CA	ALA	145	-5.806	13.756	9.454	1.00	0.00
ATOM	2230	C	ALA	145	-4.987	14.508	10.502	1.00	0.00
ATOM	2231	O	ALA	145	-3.858	14.928	10.235	1.00	0.00
ATOM	2229	CB	ALA	145	-6.726	14.714	8.710	1.00	0.00



ATOM	2232	H	ALA	145	-7.561	12.761	10.087	1.00	0.00
ATOM	2233	HA	ALA	145	-5.134	13.308	8.738	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.421	14.773	7.677	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.666	15.695	9.160	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.744	14.355	8.765	1.00	0.00
ATOM	2237	N	GLU	146	-5.544	14.647	11.710	1.00	0.00
ATOM	2238	CA	GLU	146	-4.833	15.322	12.793	1.00	0.00
ATOM	2244	C	GLU	146	-3.582	14.517	13.129	1.00	0.00
ATOM	2245	O	GLU	146	-2.493	15.063	13.323	1.00	0.00
ATOM	2239	CB	GLU	146	-5.752	15.488	14.023	1.00	0.00
ATOM	2240	CG	GLU	146	-5.083	15.200	15.362	1.00	0.00
ATOM	2241	CD	GLU	146	-5.721	15.951	16.516	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.795	17.194	16.446	1.00	0.00
ATOM	2243	OE2	GLU	146	-6.151	15.296	17.497	1.00	0.00
ATOM	2246	H	GLU	146	-6.438	14.265	11.882	1.00	0.00
ATOM	2247	HA	GLU	146	-4.532	16.296	12.436	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.599	14.823	13.920	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.113	16.503	14.046	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.042	15.487	15.297	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.149	14.141	15.562	1.00	0.00
ATOM	2252	N	PHE	147	-3.755	13.204	13.150	1.00	0.00
ATOM	2253	CA	PHE	147	-2.672	12.272	13.422	1.00	0.00
ATOM	2261	C	PHE	147	-1.637	12.311	12.297	1.00	0.00
ATOM	2262	O	PHE	147	-0.438	12.164	12.546	1.00	0.00
ATOM	2254	CB	PHE	147	-3.259	10.863	13.577	1.00	0.00
ATOM	2255	CG	PHE	147	-2.250	9.780	13.840	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.206	9.977	14.730	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.353	8.559	13.194	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.283	8.979	14.964	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.431	7.558	13.425	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.395	7.767	14.311	1.00	0.00
ATOM	2263	H	PHE	147	-4.649	12.849	12.957	1.00	0.00
ATOM	2264	HA	PHE	147	-2.191	12.567	14.351	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.789	10.607	12.671	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.956	10.865	14.401	1.00	0.00
ATOM	2267	HD1	PHE	147	-3.162	8.395	12.498	1.00	0.00
ATOM	2268	HD2	PHE	147	-1.117	10.924	15.242	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.523	6.611	12.915	1.00	0.00
ATOM	2270	HE2	PHE	147	0.528	9.144	15.659	1.00	0.00
ATOM	2271	HZ	PHE	147	0.332	6.989	14.490	1.00	0.00
ATOM	2272	N	THR	148	-2.092	12.530	11.062	1.00	0.00
ATOM	2273	CA	THR	148	-1.176	12.601	9.923	1.00	0.00
ATOM	2277	C	THR	148	-0.249	13.801	10.049	1.00	0.00
ATOM	2278	O	THR	148	0.877	13.775	9.571	1.00	0.00
ATOM	2274	CB	THR	148	-1.914	12.677	8.576	1.00	0.00
ATOM	2275	OG1	THR	148	-3.248	12.187	8.714	1.00	0.00
ATOM	2276	CG2	THR	148	-1.180	11.869	7.512	1.00	0.00
ATOM	2279	H	THR	148	-3.058	12.654	10.916	1.00	0.00
ATOM	2280	HA	THR	148	-0.576	11.702	9.929	1.00	0.00
ATOM	2281	HB	THR	148	-1.950	13.709	8.258	1.00	0.00
ATOM	2282	HG1	THR	148	-3.292	11.559	9.443	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.286	11.437	7.939	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.909	12.517	6.691	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.823	11.080	7.150	1.00	0.00
ATOM	2286	N	ALA	149	-0.720	14.850	10.704	1.00	0.00
ATOM	2287	CA	ALA	149	0.099	16.037	10.897	1.00	0.00
ATOM	2289	C	ALA	149	0.980	15.869	12.129	1.00	0.00
ATOM	2290	O	ALA	149	2.046	16.469	12.235	1.00	0.00
ATOM	2288	CB	ALA	149	-0.773	17.277	11.025	1.00	0.00
ATOM	2291	H	ALA	149	-1.634	14.823	11.075	1.00	0.00
ATOM	2292	HA	ALA	149	0.731	16.150	10.027	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.773	16.987	11.312	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.806	17.793	10.077	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.358	17.933	11.777	1.00	0.00
ATOM	2296	N	LEU	150	0.522	15.045	13.055	1.00	0.00
ATOM	2297	CA	LEU	150	1.249	14.787	14.289	1.00	0.00
ATOM	2302	C	LEU	150	2.464	13.896	14.050	1.00	0.00
ATOM	2303	O	LEU	150	3.517	14.087	14.662	1.00	0.00
ATOM	2298	CB	LEU	150	0.317	14.122	15.303	1.00	0.00
ATOM	2299	CG	LEU	150	-0.477	15.083	16.184	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.810	14.472	16.571	1.00	0.00
ATOM	2301	CD2	LEU	150	0.316	15.453	17.426	1.00	0.00
ATOM	2304	H	LEU	150	-0.341	14.600	12.907	1.00	0.00



ATOM	2305	HA	LEU	150	1.579	15.736	14.684	1.00	0.00
ATOM	2306	1HB	LEU	150	0.900	13.488	15.940	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.374	13.503	14.761	1.00	0.00
ATOM	2308	HG	LEU	150	-0.671	15.985	15.630	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.512	14.591	15.759	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.191	14.967	17.452	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.677	13.420	16.781	1.00	0.00
ATOM	2312	1HD2	LEU	150	-0.335	15.431	18.288	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.725	16.444	17.309	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.119	14.744	17.565	1.00	0.00
ATOM	2315	N	TYR	151	2.309	12.906	13.182	1.00	0.00
ATOM	2316	CA	TYR	151	3.391	11.975	12.891	1.00	0.00
ATOM	2325	C	TYR	151	3.665	11.881	11.396	1.00	0.00
ATOM	2326	O	TYR	151	4.095	10.839	10.908	1.00	0.00
ATOM	2317	CB	TYR	151	3.043	10.580	13.423	1.00	0.00
ATOM	2318	CG	TYR	151	3.372	10.364	14.885	1.00	0.00
ATOM	2319	CD1	TYR	151	4.617	9.889	15.277	1.00	0.00
ATOM	2320	CD2	TYR	151	2.430	10.624	15.873	1.00	0.00
ATOM	2321	CE1	TYR	151	4.914	9.679	16.612	1.00	0.00
ATOM	2322	CE2	TYR	151	2.718	10.416	17.206	1.00	0.00
ATOM	2323	CZ	TYR	151	3.959	9.944	17.572	1.00	0.00
ATOM	2324	OK	TYR	151	4.248	9.742	18.902	1.00	0.00
ATOM	2327	H	TYR	151	1.440	12.789	12.738	1.00	0.00
ATOM	2328	HA	TYR	151	4.279	12.330	13.391	1.00	0.00
ATOM	2329	1HB	TYR	151	3.588	9.844	12.850	1.00	0.00
ATOM	2330	2HB	TYR	151	1.986	10.410	13.297	1.00	0.00
ATOM	2331	HD1	TYR	151	1.457	10.994	15.584	1.00	0.00
ATOM	2332	HD2	TYR	151	5.361	9.681	14.523	1.00	0.00
ATOM	2333	HE1	TYR	151	1.970	10.625	17.959	1.00	0.00
ATOM	2334	HE2	TYR	151	5.887	9.310	16.897	1.00	0.00
ATOM	2335	HH	TYR	151	5.177	9.517	18.998	1.00	0.00
ATOM	2336	N	GLY	152	3.408	12.953	10.660	1.00	0.00
ATOM	2337	CA	GLY	152	3.638	12.912	9.234	1.00	0.00
ATOM	2338	C	GLY	152	4.583	13.986	8.743	1.00	0.00
ATOM	2339	O	GLY	152	5.587	14.293	9.386	1.00	0.00
ATOM	2340	H	GLY	152	3.051	13.764	11.078	1.00	0.00
ATOM	2341	1HA	GLY	152	2.691	13.025	8.728	1.00	0.00
ATOM	2342	2HA	GLY	152	4.053	11.947	8.979	1.00	0.00
ATOM	2343	N	ASP	153	4.251	14.540	7.586	1.00	0.00
ATOM	2344	CA	ASP	153	5.056	15.580	6.945	1.00	0.00
ATOM	2349	C	ASP	153	4.993	16.888	7.720	1.00	0.00
ATOM	2350	O	ASP	153	6.021	17.456	8.091	1.00	0.00
ATOM	2345	CB	ASP	153	4.554	15.818	5.518	1.00	0.00
ATOM	2346	CG	ASP	153	5.519	15.319	4.461	1.00	0.00
ATOM	2347	OD1	ASP	153	6.672	15.802	4.428	1.00	0.00
ATOM	2348	OD2	ASP	153	5.122	14.448	3.655	1.00	0.00
ATOM	2351	H	ASP	153	3.442	14.228	7.139	1.00	0.00
ATOM	2352	HA	ASP	153	6.079	15.238	6.908	1.00	0.00
ATOM	2353	1HB	ASP	153	4.405	16.877	5.370	1.00	0.00
ATOM	2354	2HB	ASP	153	3.610	15.307	5.388	1.00	0.00
ATOM	2355	N	GLY	154	3.779	17.367	7.951	1.00	0.00
ATOM	2356	CA	GLY	154	3.591	18.614	8.666	1.00	0.00
ATOM	2357	C	GLY	154	3.680	18.446	10.168	1.00	0.00
ATOM	2358	O	GLY	154	2.781	18.857	10.897	1.00	0.00
ATOM	2359	H	GLY	154	3.004	16.873	7.624	1.00	0.00
ATOM	2360	1HA	GLY	154	2.622	19.017	8.417	1.00	0.00
ATOM	2361	2HA	GLY	154	4.352	19.312	8.351	1.00	0.00
ATOM	2362	N	ALA	155	4.772	17.854	10.629	1.00	0.00
ATOM	2363	CA	ALA	155	4.994	17.642	12.049	1.00	0.00
ATOM	2365	C	ALA	155	5.612	18.890	12.664	1.00	0.00
ATOM	2366	O	ALA	155	6.799	18.917	12.997	1.00	0.00
ATOM	2364	CB	ALA	155	5.879	16.425	12.274	1.00	0.00
ATOM	2367	H	ALA	155	5.457	17.564	9.993	1.00	0.00
ATOM	2368	HA	ALA	155	4.035	17.459	12.514	1.00	0.00
ATOM	2369	1HB	ALA	155	5.295	15.632	12.718	1.00	0.00
ATOM	2370	2HB	ALA	155	6.692	16.687	12.935	1.00	0.00
ATOM	2371	3HB	ALA	155	6.278	16.090	11.328	1.00	0.00
ATOM	2372	N	LEU	156	4.793	19.928	12.786	1.00	0.00
ATOM	2373	CA	LEU	156	5.213	21.204	13.331	1.00	0.00
ATOM	2378	C	LEU	156	5.716	21.065	14.763	1.00	0.00
ATOM	2379	O	LEU	156	5.497	20.041	15.420	1.00	0.00
ATOM	2374	CB	LEU	156	4.048	22.198	13.275	1.00	0.00
ATOM	2375	CG	LEU	156	2.672	21.629	13.638	1.00	0.00



ATOM	2376	CD1	LEU	156	1.943	22.567	14.581	1.00	0.00
ATOM	2377	CD2	LEU	156	1.838	21.392	12.387	1.00	0.00
ATOM	2380	H	LEU	156	3.869	19.833	12.482	1.00	0.00
ATOM	2381	HA	LEU	156	6.018	21.577	12.716	1.00	0.00
ATOM	2382	1HB	LEU	156	3.993	22.599	12.274	1.00	0.00
ATOM	2383	2HB	LEU	156	4.265	23.001	13.953	1.00	0.00
ATOM	2384	HG	LEU	156	2.802	20.680	14.141	1.00	0.00
ATOM	2385	1HD1	LEU	156	1.472	21.995	15.365	1.00	0.00
ATOM	2386	2HD1	LEU	156	1.191	23.115	14.033	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.649	23.259	15.016	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.640	20.334	12.283	1.00	0.00
ATOM	2389	2HD2	LEU	156	2.377	21.745	11.521	1.00	0.00
ATOM	2390	3HD2	LEU	156	0.904	21.926	12.472	1.00	0.00
ATOM	2391	N	GLU	157	6.394	22.104	15.239	1.00	0.00
ATOM	2392	CA	GLU	157	6.947	22.119	16.588	1.00	0.00
ATOM	2398	C	GLU	157	5.863	21.888	17.634	1.00	0.00
ATOM	2399	O	GLU	157	6.107	21.261	18.666	1.00	0.00
ATOM	2393	CB	GLU	157	7.647	23.449	16.851	1.00	0.00
ATOM	2394	CG	GLU	157	9.156	23.330	16.954	1.00	0.00
ATOM	2395	CD	GLU	157	9.863	24.622	16.608	1.00	0.00
ATOM	2396	OE1	GLU	157	9.388	25.695	17.034	1.00	0.00
ATOM	2397	OE2	GLU	157	10.899	24.568	15.911	1.00	0.00
ATOM	2400	H	GLU	157	6.536	22.883	14.660	1.00	0.00
ATOM	2401	HA	GLU	157	7.673	21.323	16.658	1.00	0.00
ATOM	2402	1HB	GLU	157	7.276	23.862	17.777	1.00	0.00
ATOM	2403	2HB	GLU	157	7.417	24.129	16.045	1.00	0.00
ATOM	2404	1HG	GLU	157	9.491	22.560	16.276	1.00	0.00
ATOM	2405	2HG	GLU	157	9.415	23.056	17.966	1.00	0.00
ATOM	2406	N	GLU	158	4.665	22.377	17.358	1.00	0.00
ATOM	2407	CA	GLU	158	3.553	22.209	18.281	1.00	0.00
ATOM	2413	C	GLU	158	3.093	20.762	18.294	1.00	0.00
ATOM	2414	O	GLU	158	2.872	20.179	19.352	1.00	0.00
ATOM	2408	CB	GLU	158	2.388	23.119	17.895	1.00	0.00
ATOM	2409	CG	GLU	158	2.554	24.552	18.365	1.00	0.00
ATOM	2410	CD	GLU	158	2.170	24.728	19.818	1.00	0.00
ATOM	2411	OE1	GLU	158	2.021	23.713	20.525	1.00	0.00
ATOM	2412	OE2	GLU	158	2.024	25.883	20.261	1.00	0.00
ATOM	2415	H	GLU	158	4.524	22.855	16.514	1.00	0.00
ATOM	2416	HA	GLU	158	3.897	22.473	19.267	1.00	0.00
ATOM	2417	1HB	GLU	158	1.483	22.724	18.331	1.00	0.00
ATOM	2418	2HB	GLU	158	2.288	23.124	16.820	1.00	0.00
ATOM	2419	1HG	GLU	158	1.929	25.193	17.761	1.00	0.00
ATOM	2420	2HG	GLU	158	3.588	24.841	18.244	1.00	0.00
ATOM	2421	N	ALA	159	2.957	20.190	17.109	1.00	0.00
ATOM	2422	CA	ALA	159	2.521	18.812	16.968	1.00	0.00
ATOM	2424	C	ALA	159	3.470	17.845	17.664	1.00	0.00
ATOM	2425	O	ALA	159	3.029	16.954	18.381	1.00	0.00
ATOM	2423	CB	ALA	159	2.380	18.450	15.497	1.00	0.00
ATOM	2426	K	ALA	159	3.155	20.712	16.305	1.00	0.00
ATOM	2427	HA	ALA	159	1.545	18.727	17.425	1.00	0.00
ATOM	2428	1HB	ALA	159	1.698	19.139	15.021	1.00	0.00
ATOM	2429	2HB	ALA	159	1.998	17.445	15.407	1.00	0.00
ATOM	2430	3HB	ALA	159	3.347	18.513	15.016	1.00	0.00
ATOM	2431	N	ARG	160	4.770	18.013	17.438	1.00	0.00
ATOM	2432	CA	ARG	160	5.767	17.122	18.033	1.00	0.00
ATOM	2440	C	ARG	160	5.784	17.205	19.562	1.00	0.00
ATOM	2441	O	ARG	160	5.848	16.177	20.236	1.00	0.00
ATOM	2433	CB	ARG	160	7.168	17.378	17.453	1.00	0.00
ATOM	2434	CG	ARG	160	7.688	18.795	17.640	1.00	0.00
ATOM	2435	CD	ARG	160	8.978	19.025	16.863	1.00	0.00
ATOM	2436	NE	ARG	160	8.729	19.243	15.435	1.00	0.00
ATOM	2437	CZ	ARG	160	9.456	20.056	14.665	1.00	0.00
ATOM	2438	NH1	ARG	160	10.465	20.747	15.184	1.00	0.00
ATOM	2439	NH2	ARG	160	9.163	20.183	13.378	1.00	0.00
ATOM	2442	H	ARG	160	5.061	18.741	16.848	1.00	0.00
ATOM	2443	HA	ARG	160	5.477	16.115	17.768	1.00	0.00
ATOM	2444	1HB	ARG	160	7.144	17.167	16.393	1.00	0.00
ATOM	2445	2HB	ARG	160	7.866	16.702	17.924	1.00	0.00
ATOM	2446	1HG	ARG	160	7.875	18.964	18.690	1.00	0.00
ATOM	2447	2HG	ARG	160	6.941	19.490	17.289	1.00	0.00
ATOM	2448	1HD	ARG	160	9.613	18.160	16.981	1.00	0.00
ATOM	2449	2HD	ARG	160	9.477	19.895	17.267	1.00	0.00
ATOM	2450	HE	ARG	160	7.979	18.753	15.027	1.00	0.00



ATOM	2451	LHH1	ARG	160	10.689	20.658	16.153	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.006	21.375	14.603	1.00	0.00
ATOM	2453	1HH2	ARG	160	8.392	19.668	12.981	1.00	0.00
ATOM	2454	2HH2	ARG	160	9.715	20.789	12.785	1.00	0.00
ATOM	2455	N	ARG	161	5.715	18.412	20.118	1.00	0.00
ATOM	2456	CA	ARG	161	5.722	18.557	21.569	1.00	0.00
ATOM	2464	C	ARG	161	4.395	18.090	22.161	1.00	0.00
ATOM	2465	O	ARG	161	4.309	17.735	23.339	1.00	0.00
ATOM	2457	CB	ARG	161	6.027	20.002	21.990	1.00	0.00
ATOM	2458	CG	ARG	161	4.944	21.003	21.631	1.00	0.00
ATOM	2459	CD	ARG	161	5.230	22.367	22.242	1.00	0.00
ATOM	2460	NE	ARG	161	4.064	23.248	22.197	1.00	0.00
ATOM	2461	CZ	ARG	161	3.787	24.182	23.106	1.00	0.00
ATOM	2462	NH1	ARG	161	4.576	24.355	24.160	1.00	0.00
ATOM	2463	NH2	ARG	161	2.718	24.950	22.950	1.00	0.00
ATOM	2466	H	ARG	161	5.655	19.209	19.549	1.00	0.00
ATOM	2467	HA	ARG	161	6.504	17.921	21.947	1.00	0.00
ATOM	2468	1HB	ARG	161	6.945	20.314	21.515	1.00	0.00
ATOM	2469	2HB	ARG	161	6.162	20.028	23.061	1.00	0.00
ATOM	2470	1HG	ARG	161	3.993	20.645	21.996	1.00	0.00
ATOM	2471	2HG	ARG	161	4.905	21.098	20.558	1.00	0.00
ATOM	2472	1HD	ARG	161	6.039	22.828	21.695	1.00	0.00
ATOM	2473	2HD	ARG	161	5.525	22.231	23.270	1.00	0.00
ATOM	2474	HE	ARG	161	3.443	23.142	21.428	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.388	23.785	24.281	1.00	0.00
ATOM	2476	2HH1	ARG	161	4.356	25.062	24.846	1.00	0.00
ATOM	2477	1HH2	ARG	161	2.122	24.823	22.142	1.00	0.00
ATOM	2478	2HH2	ARG	161	2.491	25.658	23.629	1.00	0.00
ATOM	2479	N	LEU	162	3.356	18.088	21.335	1.00	0.00
ATOM	2480	CA	LEU	162	2.039	17.668	21.778	1.00	0.00
ATOM	2485	C	LEU	162	1.929	16.151	21.831	1.00	0.00
ATOM	2486	O	LEU	162	1.441	15.608	22.813	1.00	0.00
ATOM	2481	CB	LEU	162	0.951	18.239	20.869	1.00	0.00
ATOM	2482	CG	LEU	162	0.149	19.395	21.469	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.463	20.247	20.367	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.930	18.864	22.402	1.00	0.00
ATOM	2487	H	LEU	162	3.480	18.382	20.406	1.00	0.00
ATOM	2488	HA	LEU	162	1.896	18.053	22.776	1.00	0.00
ATOM	2489	1HB	LEU	162	0.261	17.445	20.623	1.00	0.00
ATOM	2490	2HB	LEU	162	1.415	18.585	19.957	1.00	0.00
ATOM	2491	HG	LEU	162	0.813	20.023	22.045	1.00	0.00
ATOM	2492	1HD1	LEU	162	-1.046	19.620	19.709	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.325	20.726	19.803	1.00	0.00
ATOM	2494	3HD1	LEU	162	-1.100	21.000	20.806	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.819	18.638	21.834	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.160	19.611	23.149	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.575	17.968	22.889	1.00	0.00
ATOM	2498	N	ARG	163	2.373	15.466	20.779	1.00	0.00
ATOM	2499	CA	ARG	163	2.294	14.004	20.744	1.00	0.00
ATOM	2507	C	ARG	163	3.127	13.374	21.857	1.00	0.00
ATOM	2508	O	ARG	163	2.647	12.481	22.557	1.00	0.00
ATOM	2500	CB	ARG	163	2.714	13.442	19.381	1.00	0.00
ATOM	2501	CG	ARG	163	3.835	14.210	18.711	1.00	0.00
ATOM	2502	CD	ARG	163	4.495	13.392	17.623	1.00	0.00
ATOM	2503	NE	ARG	163	5.866	13.045	17.982	1.00	0.00
ATOM	2504	CZ	ARG	163	6.831	12.767	17.114	1.00	0.00
ATOM	2505	NH1	ARG	163	6.597	12.821	15.805	1.00	0.00
ATOM	2506	NH2	ARG	163	8.036	12.445	17.568	1.00	0.00
ATOM	2509	H	ARG	163	2.750	15.952	20.009	1.00	0.00
ATOM	2510	HA	ARG	163	1.261	13.739	20.915	1.00	0.00
ATOM	2511	1HB	ARG	163	1.858	13.452	18.724	1.00	0.00
ATOM	2512	2HB	ARG	163	3.042	12.421	19.512	1.00	0.00
ATOM	2513	1HG	ARG	163	4.575	14.468	19.455	1.00	0.00
ATOM	2514	2HG	ARG	163	3.432	15.112	18.274	1.00	0.00
ATOM	2515	1HD	ARG	163	4.496	13.962	16.705	1.00	0.00
ATOM	2516	2HD	ARG	163	3.928	12.482	17.479	1.00	0.00
ATOM	2517	HE	ARG	163	6.085	13.016	18.957	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.687	13.074	15.467	1.00	0.00
ATOM	2519	2HH1	ARG	163	7.329	12.611	15.154	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.209	12.423	18.563	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.784	12.221	16.929	1.00	0.00
ATOM	2522	N	GLU	164	4.362	13.840	22.032	1.00	0.00
ATOM	2523	CA	GLU	164	5.226	13.304	23.080	1.00	0.00



ATOM	2529	C	GLU	164	4.624	13.580	24.455	1.00	0.00
ATOM	2530	O	GLU	164	4.572	12.691	25.314	1.00	0.00
ATOM	2524	CB	GLU	164	6.640	13.888	22.982	1.00	0.00
ATOM	2525	CG	GLU	164	7.703	12.860	22.606	1.00	0.00
ATOM	2526	CD	GLU	164	7.848	12.686	21.108	1.00	0.00
ATOM	2527	OE1	GLU	164	6.870	12.925	20.378	1.00	0.00
ATOM	2528	OE2	GLU	164	8.945	12.295	20.658	1.00	0.00
ATOM	2531	H	GLU	164	4.697	14.557	21.451	1.00	0.00
ATOM	2532	HA	GLU	164	5.280	12.234	22.939	1.00	0.00
ATOM	2533	1HB	GLU	164	6.907	14.319	23.937	1.00	0.00
ATOM	2534	2HB	GLU	164	6.643	14.667	22.233	1.00	0.00
ATOM	2535	1HG	GLU	164	7.436	11.903	23.039	1.00	0.00
ATOM	2536	2HG	GLU	164	8.654	13.177	23.008	1.00	0.00
ATOM	2537	N	GLY	165	4.137	14.805	24.650	1.00	0.00
ATOM	2538	CA	GLY	165	3.520	15.158	25.912	1.00	0.00
ATOM	2539	C	GLY	165	2.167	14.497	26.080	1.00	0.00
ATOM	2540	O	GLY	165	1.578	14.526	27.160	1.00	0.00
ATOM	2541	H	GLY	165	4.179	15.469	23.923	1.00	0.00
ATOM	2542	1HA	GLY	165	3.395	16.229	25.954	1.00	0.00
ATOM	2543	2HA	GLY	165	4.168	14.846	26.718	1.00	0.00
ATOM	2544	N	ASN	166	1.678	13.899	25.003	1.00	0.00
ATOM	2545	CA	ASN	166	0.393	13.224	25.013	1.00	0.00
ATOM	2550	C	ASN	166	0.537	11.798	25.509	1.00	0.00
ATOM	2551	O	ASN	166	-0.103	11.414	26.490	1.00	0.00
ATOM	2546	CB	ASN	166	-0.231	13.215	23.615	1.00	0.00
ATOM	2547	CG	ASN	166	-1.435	14.130	23.518	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.780	14.827	24.471	1.00	0.00
ATOM	2549	ND2	ASN	166	-2.086	14.135	22.367	1.00	0.00
ATOM	2552	H	ASN	166	2.201	13.915	24.173	1.00	0.00
ATOM	2553	HA	ASN	166	-0.260	13.760	25.683	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.541	12.207	23.367	1.00	0.00
ATOM	2555	2HB	ASN	166	0.506	13.544	22.897	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.759	13.555	21.647	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.868	14.715	22.285	1.00	0.00
ATOM	2558	N	TRP	167	1.373	11.010	24.828	1.00	0.00
ATOM	2559	CA	TRP	167	1.574	9.619	25.207	1.00	0.00
ATOM	2570	C	TRP	167	2.141	9.506	26.611	1.00	0.00
ATOM	2571	O	TRP	167	1.941	8.493	27.278	1.00	0.00
ATOM	2560	CB	TRP	167	2.426	8.841	24.179	1.00	0.00
ATOM	2561	CG	TRP	167	3.839	9.319	23.989	1.00	0.00
ATOM	2562	CD1	TRP	167	4.340	9.960	22.895	1.00	0.00
ATOM	2563	CD2	TRP	167	4.938	9.152	24.892	1.00	0.00
ATOM	2564	NE1	TRP	167	5.677	10.219	23.072	1.00	0.00
ATOM	2565	CE2	TRP	167	6.067	9.734	24.291	1.00	0.00
ATOM	2566	CE3	TRP	167	5.070	8.577	26.156	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.314	9.754	24.911	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.307	8.596	26.773	1.00	0.00
ATOM	2569	CH2	TRP	167	7.415	9.181	26.150	1.00	0.00
ATOM	2572	H	TRP	167	1.852	11.373	24.054	1.00	0.00
ATOM	2573	HA	TRP	167	0.593	9.167	25.226	1.00	0.00
ATOM	2574	1HB	TRP	167	1.931	8.887	23.218	1.00	0.00
ATOM	2575	2HB	TRP	167	2.477	7.809	24.488	1.00	0.00
ATOM	2576	HD1	TRP	167	3.757	10.225	22.026	1.00	0.00
ATOM	2577	HE1	TRP	167	6.254	10.681	22.426	1.00	0.00
ATOM	2578	HE3	TRP	167	4.217	8.123	26.652	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.178	10.201	24.443	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.427	8.154	27.752	1.00	0.00
ATOM	2581	HH2	TRP	167	8.362	9.173	26.668	1.00	0.00
ATOM	2582	N	ALA	168	2.826	10.550	27.068	1.00	0.00
ATOM	2583	CA	ALA	168	3.395	10.554	28.408	1.00	0.00
ATOM	2585	C	ALA	168	2.301	10.349	29.451	1.00	0.00
ATOM	2586	O	ALA	168	2.481	9.623	30.424	1.00	0.00
ATOM	2584	CB	ALA	168	4.143	11.855	28.663	1.00	0.00
ATOM	2587	H	ALA	168	2.948	11.340	26.489	1.00	0.00
ATOM	2588	HA	ALA	168	4.100	9.739	28.475	1.00	0.00
ATOM	2589	1HB	ALA	168	5.165	11.635	28.936	1.00	0.00
ATOM	2590	2HB	ALA	168	3.664	12.394	29.466	1.00	0.00
ATOM	2591	3HB	ALA	168	4.131	12.460	27.768	1.00	0.00
ATOM	2592	N	SER	169	1.171	11.001	29.239	1.00	0.00
ATOM	2593	CA	SER	169	0.046	10.904	30.153	1.00	0.00
ATOM	2596	C	SER	169	-0.889	9.732	29.826	1.00	0.00
ATOM	2597	O	SER	169	-1.575	9.225	30.711	1.00	0.00
ATOM	2594	CB	SER	169	-0.736	12.220	30.134	1.00	0.00



ATOM	2595	OG	SER	169	0.070	13.283	29.637	1.00	0.00
ATOM	2598	H	SER	169	1.091	11.572	28.447	1.00	0.00
ATOM	2599	HA	SER	169	0.444	10.757	31.145	1.00	0.00
ATOM	2600	1HB	SER	169	-1.053	12.463	31.139	1.00	0.00
ATOM	2601	2HB	SER	169	-1.602	12.113	29.499	1.00	0.00
ATOM	2602	HG	SER	169	-0.256	13.561	28.775	1.00	0.00
ATOM	2603	N	VAL	170	-0.962	9.322	28.557	1.00	0.00
ATOM	2604	CA	VAL	170	-1.883	8.242	28.180	1.00	0.00
ATOM	2608	C	VAL	170	-1.268	6.845	28.238	1.00	0.00
ATOM	2609	O	VAL	170	-1.910	5.905	28.697	1.00	0.00
ATOM	2605	CB	VAL	170	-2.505	8.449	26.781	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.624	9.480	26.836	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.462	8.845	25.753	1.00	0.00
ATOM	2610	H	VAL	170	-0.424	9.772	27.868	1.00	0.00
ATOM	2611	HA	VAL	170	-2.694	8.269	28.893	1.00	0.00
ATOM	2612	HB	VAL	170	-2.929	7.508	26.470	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.465	10.230	26.072	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.629	9.953	27.808	1.00	0.00
ATOM	2615	3HG1	VAL	170	-4.573	8.992	26.668	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.357	8.057	25.022	1.00	0.00
ATOM	2617	2HG2	VAL	170	-0.516	9.006	26.247	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.769	9.757	25.257	1.00	0.00
ATOM	2619	N	ARG	171	-0.046	6.681	27.764	1.00	0.00
ATOM	2620	CA	ARG	171	0.576	5.362	27.772	1.00	0.00
ATOM	2628	C	ARG	171	0.920	4.928	29.194	1.00	0.00
ATOM	2629	O	ARG	171	1.010	3.736	29.484	1.00	0.00
ATOM	2621	CB	ARG	171	1.812	5.342	26.862	1.00	0.00
ATOM	2622	CG	ARG	171	3.137	5.347	27.598	1.00	0.00
ATOM	2623	CD	ARG	171	4.300	5.500	26.632	1.00	0.00
ATOM	2624	NE	ARG	171	5.247	4.385	26.717	1.00	0.00
ATOM	2625	CZ	ARG	171	6.068	4.171	27.752	1.00	0.00
ATOM	2626	NH1	ARG	171	6.051	4.981	28.804	1.00	0.00
ATOM	2627	NH2	ARG	171	6.905	3.141	27.728	1.00	0.00
ATOM	2630	H	ARG	171	0.443	7.449	27.390	1.00	0.00
ATOM	2631	HA	ARG	171	-0.149	4.665	27.376	1.00	0.00
ATOM	2632	1HB	ARG	171	1.781	6.210	26.221	1.00	0.00
ATOM	2633	2HB	ARG	171	1.775	4.455	26.248	1.00	0.00
ATOM	2634	1HG	ARG	171	3.246	4.415	28.133	1.00	0.00
ATOM	2635	2HG	ARG	171	3.149	6.171	28.296	1.00	0.00
ATOM	2636	1HD	ARG	171	4.817	6.420	26.859	1.00	0.00
ATOM	2637	2HD	ARG	171	3.905	5.552	25.623	1.00	0.00
ATOM	2638	HE	ARG	171	5.276	3.766	25.957	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.424	5.760	28.829	1.00	0.00
ATOM	2640	2HH1	ARG	171	6.660	4.807	29.590	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.925	2.524	26.942	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.529	2.974	28.506	1.00	0.00
ATOM	2643	N	THR	172	1.102	5.899	30.074	1.00	0.00
ATOM	2644	CA	THR	172	1.436	5.618	31.458	1.00	0.00
ATOM	2648	C	THR	172	0.192	5.549	32.342	1.00	0.00
ATOM	2649	O	THR	172	0.268	5.117	33.490	1.00	0.00
ATOM	2645	CB	THR	172	2.421	6.663	31.999	1.00	0.00
ATOM	2646	OG1	THR	172	3.204	7.181	30.913	1.00	0.00
ATOM	2647	CG2	THR	172	3.344	6.058	33.051	1.00	0.00
ATOM	2650	H	THR	172	1.016	6.831	29.783	1.00	0.00
ATOM	2651	HA	THR	172	1.918	4.656	31.490	1.00	0.00
ATOM	2652	HB	THR	172	1.859	7.466	32.449	1.00	0.00
ATOM	2653	HG1	THR	172	3.081	8.141	30.860	1.00	0.00
ATOM	2654	1HG2	THR	172	4.323	5.896	32.622	1.00	0.00
ATOM	2655	2HG2	THR	172	2.939	5.116	33.387	1.00	0.00
ATOM	2656	3HG2	THR	172	3.427	6.734	33.890	1.00	0.00
ATOM	2657	N	VAL	173	-0.959	5.943	31.808	1.00	0.00
ATOM	2658	CA	VAL	173	-2.193	5.872	32.583	1.00	0.00
ATOM	2662	C	VAL	173	-2.795	4.475	32.450	1.00	0.00
ATOM	2663	O	VAL	173	-3.538	4.007	33.312	1.00	0.00
ATOM	2659	CB	VAL	173	-3.213	6.965	32.174	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.962	6.605	30.903	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.186	7.234	33.310	1.00	0.00
ATOM	2664	H	VAL	173	-0.984	6.266	30.880	1.00	0.00
ATOM	2665	HA	VAL	173	-1.930	6.028	33.621	1.00	0.00
ATOM	2666	HB	VAL	173	-2.663	7.872	31.985	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.893	7.153	30.865	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.169	5.545	30.895	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.359	6.861	30.043	1.00	0.00



ATOM	2670	1HG2	VAL	173	-4.185	8.288	33.544	1.00	0.00
ATOM	2671	2HG2	VAL	173	-3.886	6.671	34.180	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.180	6.932	33.010	1.00	0.00
ATOM	2673	N	LEU	174	-2.428	3.802	31.368	1.00	0.00
ATOM	2674	CA	LEU	174	-2.886	2.443	31.109	1.00	0.00
ATOM	2679	C	LEU	174	-1.688	1.504	31.010	1.00	0.00
ATOM	2680	O	LEU	174	-1.634	0.623	30.149	1.00	0.00
ATOM	2675	CB	LEU	174	-3.723	2.372	29.824	1.00	0.00
ATOM	2676	CG	LEU	174	-4.357	3.688	29.378	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.281	3.832	27.867	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.801	3.773	29.853	1.00	0.00
ATOM	2681	H	LEU	174	-1.815	4.229	30.738	1.00	0.00
ATOM	2682	HA	LEU	174	-3.498	2.137	31.944	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.514	1.653	29.977	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.086	2.016	29.028	1.00	0.00
ATOM	2685	HG	LEU	174	-3.809	4.508	29.821	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.759	2.983	27.450	1.00	0.00
ATOM	2687	2HD1	LEU	174	-3.750	4.739	27.617	1.00	0.00
ATOM	2688	3HD1	LEU	174	-5.281	3.877	27.459	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.223	2.780	29.904	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.374	4.373	29.159	1.00	0.00
ATOM	2691	3HD2	LEU	174	-5.833	4.228	30.832	1.00	0.00
ATOM	2692	N	THR	175	-0.716	1.719	31.883	1.00	0.00
ATOM	2693	CA	THR	175	0.501	0.918	31.908	1.00	0.00
ATOM	2697	C	THR	175	0.239	-0.513	32.384	1.00	0.00
ATOM	2698	O	THR	175	1.022	-1.419	32.104	1.00	0.00
ATOM	2694	CB	THR	175	1.538	1.564	32.840	1.00	0.00
ATOM	2695	OG1	THR	175	0.871	2.490	33.708	1.00	0.00
ATOM	2696	CG2	THR	175	2.620	2.282	32.046	1.00	0.00
ATOM	2699	H	THR	175	-0.805	2.456	32.529	1.00	0.00
ATOM	2700	HA	THR	175	0.911	0.892	30.910	1.00	0.00
ATOM	2701	HB	THR	175	1.999	0.789	33.436	1.00	0.00
ATOM	2702	HG1	THR	175	1.353	3.325	33.729	1.00	0.00
ATOM	2703	1HG2	THR	175	2.216	3.189	31.623	1.00	0.00
ATOM	2704	2HG2	THR	175	2.970	1.639	31.251	1.00	0.00
ATOM	2705	3HG2	THR	175	3.445	2.525	32.700	1.00	0.00
ATOM	2706	N	GLY	176	-0.853	-0.707	33.114	1.00	0.00
ATOM	2707	CA	GLY	176	-1.181	-2.024	33.637	1.00	0.00
ATOM	2708	C	GLY	176	-1.863	-2.934	32.631	1.00	0.00
ATOM	2709	O	GLY	176	-2.343	-4.004	32.996	1.00	0.00
ATOM	2710	H	GLY	176	-1.434	0.054	33.317	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.834	-1.902	34.490	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.270	-2.500	33.968	1.00	0.00
ATOM	2713	N	ALA	177	-1.900	-2.521	31.370	1.00	0.00
ATOM	2714	CA	ALA	177	-2.533	-3.313	30.313	1.00	0.00
ATOM	2716	C	ALA	177	-1.652	-4.486	29.875	1.00	0.00
ATOM	2717	O	ALA	177	-1.961	-5.180	28.908	1.00	0.00
ATOM	2715	CB	ALA	177	-2.853	-2.422	29.123	1.00	0.00
ATOM	2718	H	ALA	177	-1.496	-1.661	31.141	1.00	0.00
ATOM	2719	HA	ALA	177	-3.467	-3.704	30.696	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.289	-1.504	29.199	1.00	0.00
ATOM	2721	2HB	ALA	177	-3.909	-2.198	29.115	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.587	-2.934	28.209	1.00	0.00
ATOM	2723	N	VAL	178	-0.555	-4.708	30.590	1.00	0.00
ATOM	2724	CA	VAL	178	0.360	-5.795	30.267	1.00	0.00
ATOM	2728	C	VAL	178	-0.149	-7.126	30.822	1.00	0.00
ATOM	2729	O	VAL	178	0.467	-7.732	31.701	1.00	0.00
ATOM	2725	CB	VAL	178	1.785	-5.528	30.804	1.00	0.00
ATOM	2726	CG1	VAL	178	2.812	-6.313	30.002	1.00	0.00
ATOM	2727	CG2	VAL	178	2.112	-4.042	30.768	1.00	0.00
ATOM	2730	H	VAL	178	-0.359	-4.129	31.352	1.00	0.00
ATOM	2731	HA	VAL	178	0.414	-5.869	29.190	1.00	0.00
ATOM	2732	HB	VAL	178	1.830	-5.861	31.830	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.050	-5.774	29.096	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.408	-7.281	29.748	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.708	-6.440	30.591	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.578	-3.576	29.954	1.00	0.00
ATOM	2737	2HG2	VAL	178	3.174	-3.910	30.626	1.00	0.00
ATOM	2738	3HG2	VAL	178	1.814	-3.586	31.701	1.00	0.00
ATOM	2739	N	ALA	179	-1.280	-7.577	30.300	1.00	0.00
ATOM	2740	CA	ALA	179	-1.879	-8.834	30.730	1.00	0.00
ATOM	2742	C	ALA	179	-1.579	-9.932	29.720	1.00	0.00
ATOM	2743	O	ALA	179	-2.203	-10.994	29.727	1.00	0.00



ATOM	2741	CB	ALA	179	-3.382	-8.671	30.895	1.00	0.00
ATOM	2744	H	ALA	179	-1.727	-7.048	29.603	1.00	0.00
ATOM	2745	HA	ALA	179	-1.454	-9.103	31.686	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.892	-9.271	30.153	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.647	-7.633	30.760	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.674	-8.993	31.883	1.00	0.00
ATOM	2749	N	LEU	180	-0.634	-9.651	28.835	1.00	0.00
ATOM	2750	CA	LEU	180	-0.256	-10.589	27.792	1.00	0.00
ATOM	2755	C	LEU	180	1.022	-11.335	28.173	1.00	0.00
ATOM	2756	O	LEU	180	1.108	-12.557	28.035	1.00	0.00
ATOM	2751	CB	LEU	180	-0.059	-9.839	26.468	1.00	0.00
ATOM	2752	CG	LEU	180	-1.331	-9.551	25.651	1.00	0.00
ATOM	2753	CD1	LEU	180	-2.432	-8.958	26.517	1.00	0.00
ATOM	2754	CD2	LEU	180	-1.015	-8.612	24.497	1.00	0.00
ATOM	2757	H	LEU	180	-0.188	-8.778	28.874	1.00	0.00
ATOM	2758	HA	LEU	180	-1.058	-11.304	27.678	1.00	0.00
ATOM	2759	1HB	LEU	180	0.609	-10.421	25.851	1.00	0.00
ATOM	2760	2HB	LEU	180	0.418	-8.894	26.687	1.00	0.00
ATOM	2761	HG	LEU	180	-1.701	-10.477	25.235	1.00	0.00
ATOM	2762	1HD1	LEU	180	-2.429	-9.442	27.482	1.00	0.00
ATOM	2763	2HD1	LEU	180	-3.389	-9.112	26.040	1.00	0.00
ATOM	2764	3HD1	LEU	180	-2.260	-7.900	26.644	1.00	0.00
ATOM	2765	1HD2	LEU	180	-0.028	-8.195	24.630	1.00	0.00
ATOM	2766	2HD2	LEU	180	-1.742	-7.815	24.472	1.00	0.00
ATOM	2767	3HD2	LEU	180	-1.051	-9.161	23.567	1.00	0.00
ATOM	2768	N	GLY	181	2.013	-10.584	28.641	1.00	0.00
ATOM	2769	CA	GLY	181	3.283	-11.159	29.027	1.00	0.00
ATOM	2770	C	GLY	181	3.240	-11.842	30.372	1.00	0.00
ATOM	2771	O	GLY	181	3.247	-11.186	31.413	1.00	0.00
ATOM	2772	H	GLY	181	1.883	-9.620	28.712	1.00	0.00
ATOM	2773	1HA	GLY	181	4.025	-10.373	29.060	1.00	0.00
ATOM	2774	2HA	GLY	181	3.573	-11.883	28.282	1.00	0.00
ATOM	2775	N	ALA	182	3.197	-13.162	30.343	1.00	0.00
ATOM	2776	CA	ALA	182	3.152	-13.957	31.563	1.00	0.00
ATOM	2778	C	ALA	182	4.548	-14.403	31.993	1.00	0.00
ATOM	2779	O	ALA	182	4.711	-15.028	33.043	1.00	0.00
ATOM	2777	CB	ALA	182	2.242	-15.163	31.371	1.00	0.00
ATOM	2780	H	ALA	182	3.189	-13.612	29.472	1.00	0.00
ATOM	2781	HA	ALA	182	2.732	-13.341	32.342	1.00	0.00
ATOM	2782	1HB	ALA	182	1.306	-14.995	31.883	1.00	0.00
ATOM	2783	2HB	ALA	182	2.721	-16.041	31.776	1.00	0.00
ATOM	2784	3HB	ALA	182	2.054	-15.309	30.316	1.00	0.00
ATOM	2785	N	LEU	183	5.548	-14.075	31.185	1.00	0.00
ATOM	2790	CA	LEU	183	6.930	-14.438	31.480	1.00	0.00
ATOM	2791	C	LEU	183	7.884	-13.549	30.696	1.00	0.00
ATOM	2792	O	LEU	183	8.621	-12.759	31.327	1.00	0.00
ATOM	2786	CB	LEU	183	7.187	-15.909	31.133	1.00	0.00
ATOM	2787	CG	LEU	183	7.714	-16.766	32.287	1.00	0.00
ATOM	2788	CD1	LEU	183	6.893	-18.037	32.425	1.00	0.00
ATOM	2789	CD2	LEU	183	9.182	-17.101	32.071	1.00	0.00
ATOM	2793	OXT	LEU	183	7.888	-13.642	29.451	1.00	0.00
ATOM	2794	H	LEU	183	5.355	-13.572	30.369	1.00	0.00
ATOM	2795	HA	LEU	183	7.097	-14.286	32.536	1.00	0.00
ATOM	2796	1HB	LEU	183	7.906	-15.945	30.331	1.00	0.00
ATOM	2797	2HB	LEU	183	6.260	-16.341	30.785	1.00	0.00
ATOM	2798	HG	LEU	183	7.630	-16.210	33.209	1.00	0.00
ATOM	2799	1HD1	LEU	183	7.088	-18.488	33.387	1.00	0.00
ATOM	2800	2HD1	LEU	183	7.164	-18.730	31.642	1.00	0.00
ATOM	2801	3HD1	LEU	183	5.843	-17.798	32.347	1.00	0.00
ATOM	2802	1HD2	LEU	183	9.275	-17.813	31.264	1.00	0.00
ATOM	2803	2HD2	LEU	183	9.592	-17.527	32.975	1.00	0.00
ATOM	2804	3HD2	LEU	183	9.724	-16.200	31.820	1.00	0.00
ENDMDL									
MODEL									
	5								
ATOM	3	N	GLY	-4	-23.926	-5.205	-29.435	1.00	0.00
ATOM	4	CA	GLY	-4	-22.499	-5.569	-29.278	1.00	0.00
ATOM	1	C	GLY	-4	-22.287	-6.447	-28.065	1.00	0.00
ATOM	2	O	GLY	-4	-23.255	-6.962	-27.504	1.00	0.00
ATOM	5	1HA	GLY	-4	-22.173	-6.103	-30.159	1.00	0.00
ATOM	6	2HA	GLY	-4	-21.914	-4.668	-29.172	1.00	0.00
ATOM	7	1HT	GLY	-4	-24.422	-5.936	-29.987	1.00	0.00
ATOM	8	2HT	GLY	-4	-24.014	-4.292	-29.927	1.00	0.00
ATOM	9	3HT	GLY	-4	-24.373	-5.126	-28.496	1.00	0.00



ATOM	10	N	PRO	-3	-21.032	-6.636	-27.629	1.00	0.00
ATOM	11	CA	PRO	-3	-20.713	-7.462	-26.461	1.00	0.00
ATOM	15	C	PRO	-3	-21.181	-6.814	-25.161	1.00	0.00
ATOM	16	O	PRO	-3	-21.286	-5.590	-25.069	1.00	0.00
ATOM	12	CB	PRO	-3	-19.179	-7.560	-26.481	1.00	0.00
ATOM	13	CG	PRO	-3	-18.760	-7.033	-27.813	1.00	0.00
ATOM	14	CD	PRO	-3	-19.824	-6.064	-28.232	1.00	0.00
ATOM	17	HA	PRO	-3	-21.142	-8.450	-26.544	1.00	0.00
ATOM	18	1HB	PRO	-3	-18.882	-8.591	-26.355	1.00	0.00
ATOM	19	2HB	PRO	-3	-18.770	-6.965	-25.678	1.00	0.00
ATOM	20	1HG	PRO	-3	-18.691	-7.843	-28.524	1.00	0.00
ATOM	21	2HG	PRO	-3	-17.809	-6.528	-27.725	1.00	0.00
ATOM	22	1HD	PRO	-3	-19.909	-6.033	-29.308	1.00	0.00
ATOM	23	2HD	PRO	-3	-19.622	-5.079	-27.836	1.00	0.00
ATOM	24	N	LEU	-2	-21.464	-7.636	-24.162	1.00	0.00
ATOM	25	CA	LEU	-2	-21.922	-7.137	-22.875	1.00	0.00
ATOM	30	C	LEU	-2	-20.832	-7.279	-21.820	1.00	0.00
ATOM	31	O	LEU	-2	-20.159	-8.311	-21.737	1.00	0.00
ATOM	26	CB	LEU	-2	-23.180	-7.887	-22.435	1.00	0.00
ATOM	27	CG	LEU	-2	-24.498	-7.183	-22.759	1.00	0.00
ATOM	28	CD1	LEU	-2	-25.206	-7.882	-23.911	1.00	0.00
ATOM	29	CD2	LEU	-2	-25.392	-7.136	-21.530	1.00	0.00
ATOM	32	H	LEU	-2	-21.364	-8.602	-24.293	1.00	0.00
ATOM	33	HA	LEU	-2	-22.160	-6.091	-22.992	1.00	0.00
ATOM	34	1HB	LEU	-2	-23.130	-8.036	-21.367	1.00	0.00
ATOM	35	2HB	LEU	-2	-23.183	-8.855	-22.916	1.00	0.00
ATOM	36	HG	LEU	-2	-24.292	-6.168	-23.064	1.00	0.00
ATOM	37	1HD1	LEU	-2	-26.263	-7.950	-23.696	1.00	0.00
ATOM	38	2HD1	LEU	-2	-24.800	-8.875	-24.036	1.00	0.00
ATOM	39	3HD1	LEU	-2	-25.060	-7.316	-24.820	1.00	0.00
ATOM	40	1HD2	LEU	-2	-26.130	-7.923	-21.590	1.00	0.00
ATOM	41	2HD2	LEU	-2	-25.889	-6.179	-21.483	1.00	0.00
ATOM	42	3HD2	LEU	-2	-24.790	-7.275	-20.643	1.00	0.00
ATOM	43	N	GLY	-1	-20.669	-6.239	-21.015	1.00	0.00
ATOM	44	CA	GLY	-1	-19.672	-6.248	-19.967	1.00	0.00
ATOM	45	C	GLY	-1	-20.097	-5.399	-18.788	1.00	0.00
ATOM	46	O	GLY	-1	-21.282	-5.103	-18.631	1.00	0.00
ATOM	47	H	GLY	-1	-21.239	-5.451	-21.131	1.00	0.00
ATOM	48	1HA	GLY	-1	-18.742	-5.862	-20.361	1.00	0.00
ATOM	49	2HA	GLY	-1	-19.519	-7.264	-19.635	1.00	0.00
ATOM	50	N	SER	0	-19.138	-4.998	-17.963	1.00	0.00
ATOM	51	CA	SER	0	-19.431	-4.174	-16.799	1.00	0.00
ATOM	54	C	SER	0	-19.697	-2.731	-17.210	1.00	0.00
ATOM	55	O	SER	0	-18.970	-2.158	-18.025	1.00	0.00
ATOM	52	CB	SER	0	-18.278	-4.228	-15.793	1.00	0.00
ATOM	53	CG	SER	0	-18.739	-3.963	-14.478	1.00	0.00
ATOM	56	H	SER	0	-18.208	-5.257	-18.143	1.00	0.00
ATOM	57	HA	SER	0	-20.321	-4.570	-16.332	1.00	0.00
ATOM	58	1HB	SER	0	-17.536	-3.490	-16.058	1.00	0.00
ATOM	59	2HB	SER	0	-17.831	-5.211	-15.812	1.00	0.00
ATOM	60	HG	SER	0	-18.208	-3.258	-14.083	1.00	0.00
ATOM	61	N	MET	1	-20.741	-2.147	-16.641	1.00	0.00
ATOM	62	CA	MET	1	-21.106	-0.768	-16.940	1.00	0.00
ATOM	67	C	MET	1	-20.608	0.161	-15.839	1.00	0.00
ATOM	68	O	MET	1	-20.736	1.380	-15.931	1.00	0.00
ATOM	63	CB	MET	1	-22.626	-0.638	-17.078	1.00	0.00
ATOM	64	CG	MET	1	-23.133	-0.851	-18.494	1.00	0.00
ATOM	65	SD	MET	1	-24.727	-1.694	-18.541	1.00	0.00
ATOM	66	CE	MET	1	-24.774	-2.228	-20.251	1.00	0.00
ATOM	69	H	MET	1	-21.280	-2.657	-16.001	1.00	0.00
ATOM	70	HA	MET	1	-20.639	-0.491	-17.873	1.00	0.00
ATOM	71	1HB	MET	1	-22.921	0.350	-16.758	1.00	0.00
ATOM	72	2HB	MET	1	-23.098	-1.368	-16.437	1.00	0.00
ATOM	73	1HG	MET	1	-22.411	-1.446	-19.035	1.00	0.00
ATOM	74	2HG	MET	1	-23.237	0.111	-18.974	1.00	0.00
ATOM	75	1HE	MET	1	-24.438	-1.424	-20.889	1.00	0.00
ATOM	76	2HE	MET	1	-25.786	-2.498	-20.516	1.00	0.00
ATOM	77	3HE	MET	1	-24.128	-3.084	-20.379	1.00	0.00
ATOM	78	N	ALA	2	-20.039	-0.430	-14.798	1.00	0.00
ATOM	79	CA	ALA	2	-19.516	0.327	-13.672	1.00	0.00
ATOM	81	C	ALA	2	-18.279	-0.357	-13.110	1.00	0.00
ATOM	82	O	ALA	2	-18.110	-1.570	-13.260	1.00	0.00
ATOM	80	CB	ALA	2	-20.579	0.476	-12.593	1.00	0.00



ATOM	83	H	ALA	2	-19.965	-1.408	-14.785	1.00	0.00
ATOM	84	HA	ALA	2	-19.246	1.312	-14.026	1.00	0.00
ATOM	85	1HB	ALA	2	-20.565	-0.393	-11.953	1.00	0.00
ATOM	86	2HB	ALA	2	-21.551	0.567	-13.055	1.00	0.00
ATOM	87	3HB	ALA	2	-20.375	1.360	-12.006	1.00	0.00
ATOM	88	N	THR	3	-17.414	0.417	-12.474	1.00	0.00
ATOM	89	CA	THR	3	-16.197	-0.115	-11.899	1.00	0.00
ATOM	93	C	THR	3	-16.221	-0.003	-10.375	1.00	0.00
ATOM	94	O	THR	3	-16.694	0.996	-9.821	1.00	0.00
ATOM	90	CB	THR	3	-14.953	0.605	-12.470	1.00	0.00
ATOM	91	OG1	THR	3	-14.692	1.814	-11.747	1.00	0.00
ATOM	92	CG2	THR	3	-15.141	0.945	-13.944	1.00	0.00
ATOM	95	H	THR	3	-17.591	1.373	-12.391	1.00	0.00
ATOM	96	HA	THR	3	-16.134	-1.159	-12.168	1.00	0.00
ATOM	97	HB	THR	3	-14.109	-0.050	-12.375	1.00	0.00
ATOM	98	HG1	THR	3	-13.829	2.155	-11.998	1.00	0.00
ATOM	99	1HG2	THR	3	-14.511	0.304	-14.544	1.00	0.00
ATOM	100	2HG2	THR	3	-14.867	1.976	-14.112	1.00	0.00
ATOM	101	3HG2	THR	3	-16.174	0.797	-14.220	1.00	0.00
ATOM	102	N	PRO	4	-15.725	-1.037	-9.676	1.00	0.00
ATOM	103	CA	PRO	4	-15.693	-1.067	-8.214	1.00	0.00
ATOM	107	C	PRO	4	-14.593	-0.172	-7.651	1.00	0.00
ATOM	108	O	PRO	4	-13.597	0.104	-8.326	1.00	0.00
ATOM	104	CB	PRO	4	-15.404	-2.540	-7.878	1.00	0.00
ATOM	105	CG	PRO	4	-15.465	-3.277	-9.178	1.00	0.00
ATOM	106	CD	PRO	4	-15.169	-2.267	-10.247	1.00	0.00
ATOM	109	HA	PRO	4	-16.644	-0.777	-7.791	1.00	0.00
ATOM	110	1HB	PRO	4	-16.150	-2.903	-7.187	1.00	0.00
ATOM	111	2HB	PRO	4	-14.426	-2.620	-7.427	1.00	0.00
ATOM	112	1HG	PRO	4	-16.452	-3.692	-9.318	1.00	0.00
ATOM	113	2HG	PRO	4	-14.722	-4.063	-9.190	1.00	0.00
ATOM	114	1HD	PRO	4	-15.668	-2.529	-11.167	1.00	0.00
ATOM	115	2HD	PRO	4	-14.103	-2.178	-10.402	1.00	0.00
ATOM	116	N	ALA	5	-14.774	0.280	-6.419	1.00	0.00
ATOM	117	CA	ALA	5	-13.795	1.143	-5.777	1.00	0.00
ATOM	119	C	ALA	5	-13.647	0.803	-4.301	1.00	0.00
ATOM	120	O	ALA	5	-14.638	0.606	-3.593	1.00	0.00
ATOM	118	CB	ALA	5	-14.185	2.606	-5.946	1.00	0.00
ATOM	121	H	ALA	5	-15.588	0.027	-5.926	1.00	0.00
ATOM	122	HA	ALA	5	-12.844	0.990	-6.268	1.00	0.00
ATOM	123	1HB	ALA	5	-14.263	2.840	-6.998	1.00	0.00
ATOM	124	2HB	ALA	5	-13.433	3.234	-5.492	1.00	0.00
ATOM	125	3HB	ALA	5	-15.137	2.782	-5.467	1.00	0.00
ATOM	126	N	SER	6	-12.408	0.736	-3.841	1.00	0.00
ATOM	127	CA	SER	6	-12.121	0.428	-2.452	1.00	0.00
ATOM	130	C	SER	6	-11.825	1.712	-1.681	1.00	0.00
ATOM	131	O	SER	6	-10.886	2.437	-2.005	1.00	0.00
ATOM	128	CB	SER	6	-10.935	-0.532	-2.370	1.00	0.00
ATOM	129	OG	SER	6	-10.414	-0.801	-3.665	1.00	0.00
ATOM	132	H	SER	6	-11.659	0.902	-4.451	1.00	0.00
ATOM	133	HA	SER	6	-12.994	-0.046	-2.025	1.00	0.00
ATOM	134	1HB	SER	6	-11.257	-1.460	-1.923	1.00	0.00
ATOM	135	2HB	SER	6	-10.157	-0.090	-1.766	1.00	0.00
ATOM	136	HG	SER	6	-10.126	-1.722	-3.709	1.00	0.00
ATOM	137	N	ALA	7	-12.633	1.995	-0.669	1.00	0.00
ATOM	138	CA	ALA	7	-12.454	3.196	0.132	1.00	0.00
ATOM	140	C	ALA	7	-11.345	3.007	1.159	1.00	0.00
ATOM	141	O	ALA	7	-11.297	1.985	1.851	1.00	0.00
ATOM	139	CB	ALA	7	-13.756	3.568	0.826	1.00	0.00
ATOM	142	H	ALA	7	-13.372	1.384	-0.458	1.00	0.00
ATOM	143	HA	ALA	7	-12.183	4.004	-0.533	1.00	0.00
ATOM	144	1HB	ALA	7	-13.900	4.638	0.771	1.00	0.00
ATOM	145	2HB	ALA	7	-13.712	3.264	1.861	1.00	0.00
ATOM	146	3HB	ALA	7	-14.580	3.068	0.339	1.00	0.00
ATOM	147	N	PRO	8	-10.434	3.990	1.269	1.00	0.00
ATOM	148	CA	PRO	8	-9.310	3.948	2.215	1.00	0.00
ATOM	152	C	PRO	8	-9.763	4.175	3.658	1.00	0.00
ATOM	153	O	PRO	8	-9.282	5.076	4.347	1.00	0.00
ATOM	149	CB	PRO	8	-8.396	5.094	1.752	1.00	0.00
ATOM	150	CG	PRO	8	-8.960	5.567	0.450	1.00	0.00
ATOM	151	CD	PRO	8	-10.418	5.226	0.481	1.00	0.00
ATOM	154	HA	PRO	8	-8.776	3.010	2.152	1.00	0.00
ATOM	155	1HB	PRO	8	-7.389	4.725	1.633	1.00	0.00



ATOM	156	2HB	PRO	8	-8.407	5.881	2.493	1.00	0.00
ATOM	157	1HG	PRO	8	-8.474	5.056	-0.370	1.00	0.00
ATOM	158	2HG	PRO	8	-8.829	6.634	0.357	1.00	0.00
ATOM	159	1HD	PRO	8	-10.790	5.052	-0.518	1.00	0.00
ATOM	160	2HD	PRO	8	-10.980	6.009	0.967	1.00	0.00
ATOM	161	N	ASP	9	-10.696	3.345	4.100	1.00	0.00
ATOM	162	CA	ASP	9	-11.237	3.429	5.449	1.00	0.00
ATOM	167	C	ASP	9	-10.359	2.655	6.424	1.00	0.00
ATOM	168	O	ASP	9	-9.240	2.260	6.084	1.00	0.00
ATOM	163	CB	ASP	9	-12.666	2.871	5.477	1.00	0.00
ATOM	164	CG	ASP	9	-13.610	3.711	6.315	1.00	0.00
ATOM	165	OD1	ASP	9	-13.130	4.462	7.184	1.00	0.00
ATOM	166	OD2	ASP	9	-14.840	3.607	6.112	1.00	0.00
ATOM	169	H	ASP	9	-11.034	2.652	3.492	1.00	0.00
ATOM	170	HA	ASP	9	-11.257	4.469	5.738	1.00	0.00
ATOM	171	1HB	ASP	9	-12.643	1.872	5.886	1.00	0.00
ATOM	172	2HB	ASP	9	-13.050	2.833	4.468	1.00	0.00
ATOM	173	N	THR	10	-10.870	2.435	7.628	1.00	0.00
ATOM	174	CA	THR	10	-10.150	1.710	8.666	1.00	0.00
ATOM	178	C	THR	10	-9.692	0.339	8.177	1.00	0.00
ATOM	179	O	THR	10	-8.598	-0.111	8.508	1.00	0.00
ATOM	175	CB	THR	10	-11.036	1.536	9.913	1.00	0.00
ATOM	176	OG1	THR	10	-12.340	2.074	9.653	1.00	0.00
ATOM	177	CG2	THR	10	-10.421	2.239	11.115	1.00	0.00
ATOM	180	H	THR	10	-11.768	2.779	7.831	1.00	0.00
ATOM	181	HA	THR	10	-9.284	2.294	8.942	1.00	0.00
ATOM	182	HB	THR	10	-11.125	0.481	10.135	1.00	0.00
ATOM	183	HG1	THR	10	-13.004	1.363	9.719	1.00	0.00
ATOM	184	1HG2	THR	10	-9.354	2.329	10.973	1.00	0.00
ATOM	185	2HG2	THR	10	-10.618	1.665	12.008	1.00	0.00
ATOM	186	3HG2	THR	10	-10.854	3.223	11.217	1.00	0.00
ATOM	187	N	ARG	11	-10.527	-0.314	7.376	1.00	0.00
ATOM	188	CA	ARG	11	-10.201	-1.628	6.833	1.00	0.00
ATOM	196	C	ARG	11	-8.976	-1.550	5.931	1.00	0.00
ATOM	197	O	ARG	11	-8.141	-2.453	5.928	1.00	0.00
ATOM	189	CB	ARG	11	-11.391	-2.196	6.055	1.00	0.00
ATOM	190	CG	ARG	11	-11.125	-3.564	5.444	1.00	0.00
ATOM	191	CD	ARG	11	-11.174	-4.661	6.495	1.00	0.00
ATOM	192	NE	ARG	11	-9.896	-5.364	6.623	1.00	0.00
ATOM	193	CZ	ARG	11	-9.790	-6.690	6.717	1.00	0.00
ATOM	194	NH1	ARG	11	-10.872	-7.451	6.619	1.00	0.00
ATOM	195	NH2	ARG	11	-8.601	-7.259	6.887	1.00	0.00
ATOM	198	H	ARG	11	-11.384	0.104	7.142	1.00	0.00
ATOM	199	HA	ARG	11	-9.972	-2.283	7.659	1.00	0.00
ATOM	200	1HB	ARG	11	-11.643	-1.513	5.258	1.00	0.00
ATOM	201	2HB	ARG	11	-12.235	-2.282	6.724	1.00	0.00
ATOM	202	1HG	ARG	11	-10.147	-3.559	4.986	1.00	0.00
ATOM	203	2HG	ARG	11	-11.876	-3.765	4.694	1.00	0.00
ATOM	204	1HD	ARG	11	-11.939	-5.371	6.219	1.00	0.00
ATOM	205	2HD	ARG	11	-11.425	-4.216	7.447	1.00	0.00
ATOM	206	HE	ARG	11	-9.081	-4.816	6.659	1.00	0.00
ATOM	207	1HH1	ARG	11	-11.775	-7.034	6.467	1.00	0.00
ATOM	208	2HH1	ARG	11	-10.797	-8.455	6.708	1.00	0.00
ATOM	209	1HH2	ARG	11	-7.771	-6.698	6.949	1.00	0.00
ATOM	210	2HH2	ARG	11	-8.528	-8.257	6.954	1.00	0.00
ATOM	211	N	ALA	12	-8.862	-0.463	5.185	1.00	0.00
ATOM	212	CA	ALA	12	-7.727	-0.275	4.302	1.00	0.00
ATOM	214	C	ALA	12	-6.491	0.090	5.110	1.00	0.00
ATOM	215	O	ALA	12	-5.386	-0.350	4.804	1.00	0.00
ATOM	213	CB	ALA	12	-8.023	0.794	3.262	1.00	0.00
ATOM	216	H	ALA	12	-9.549	0.235	5.242	1.00	0.00
ATOM	217	HA	ALA	12	-7.546	-1.209	3.788	1.00	0.00
ATOM	218	1HB	ALA	12	-7.184	1.470	3.194	1.00	0.00
ATOM	219	2HB	ALA	12	-8.907	1.344	3.552	1.00	0.00
ATOM	220	3HB	ALA	12	-8.188	0.328	2.301	1.00	0.00
ATOM	221	N	LEU	13	-6.683	0.891	6.154	1.00	0.00
ATOM	222	CA	LEU	13	-5.572	1.301	7.001	1.00	0.00
ATOM	227	C	LEU	13	-5.054	0.125	7.834	1.00	0.00
ATOM	228	O	LEU	13	-3.845	-0.059	7.967	1.00	0.00
ATOM	223	CB	LEU	13	-5.981	2.468	7.899	1.00	0.00
ATOM	224	CG	LEU	13	-5.018	2.787	9.038	1.00	0.00
ATOM	225	CD1	LEU	13	-3.845	3.614	8.537	1.00	0.00
ATOM	226	CD2	LEU	13	-5.752	3.516	10.147	1.00	0.00



ATOM	229	H	LEU	13	-7.596	1.213	6.360	1.00	0.00
ATOM	230	HA	LEU	13	-4.776	1.631	6.349	1.00	0.00
ATOM	231	1HB	LEU	13	-6.946	2.246	8.331	1.00	0.00
ATOM	232	2HB	LEU	13	-6.074	3.351	7.281	1.00	0.00
ATOM	233	HG	LEU	13	-4.629	1.864	9.444	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.161	3.802	9.352	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.208	4.554	8.149	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.332	3.075	7.755	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.764	3.146	10.213	1.00	0.00
ATOM	238	2HD2	LEU	13	-5.768	4.574	9.932	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.245	3.348	11.085	1.00	0.00
ATOM	240	N	VAL	14	-5.965	-0.680	8.381	1.00	0.00
ATOM	241	CA	VAL	14	-5.564	-1.833	9.183	1.00	0.00
ATOM	245	C	VAL	14	-4.844	-2.858	8.305	1.00	0.00
ATOM	246	O	VAL	14	-3.893	-3.505	8.739	1.00	0.00
ATOM	242	CB	VAL	14	-6.765	-2.492	9.924	1.00	0.00
ATOM	243	CG1	VAL	14	-7.620	-3.338	8.990	1.00	0.00
ATOM	244	CG2	VAL	14	-6.273	-3.327	11.098	1.00	0.00
ATOM	247	H	VAL	14	-6.921	-0.495	8.242	1.00	0.00
ATOM	248	HA	VAL	14	-4.866	-1.478	9.929	1.00	0.00
ATOM	249	HB	VAL	14	-7.390	-1.704	10.318	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.508	-4.382	9.246	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.300	-3.182	7.971	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.655	-3.051	9.091	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.637	-2.722	11.727	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.714	-4.174	10.730	1.00	0.00
ATOM	255	3HG2	VAL	14	-7.120	-3.676	11.671	1.00	0.00
ATOM	256	N	ALA	15	-5.290	-2.977	7.057	1.00	0.00
ATOM	257	CA	ALA	15	-4.674	-3.899	6.114	1.00	0.00
ATOM	259	C	ALA	15	-3.329	-3.359	5.633	1.00	0.00
ATOM	260	O	ALA	15	-2.487	-4.110	5.147	1.00	0.00
ATOM	258	CB	ALA	15	-5.597	-4.150	4.931	1.00	0.00
ATOM	261	H	ALA	15	-6.046	-2.421	6.763	1.00	0.00
ATOM	262	HA	ALA	15	-4.513	-4.839	6.622	1.00	0.00
ATOM	263	1HB	ALA	15	-6.202	-3.273	4.756	1.00	0.00
ATOM	264	2HB	ALA	15	-6.237	-4.993	5.147	1.00	0.00
ATOM	265	3HB	ALA	15	-5.006	-4.362	4.051	1.00	0.00
ATOM	266	N	ASP	16	-3.141	-2.051	5.775	1.00	0.00
ATOM	267	CA	ASP	16	-1.903	-1.391	5.362	1.00	0.00
ATOM	272	C	ASP	16	-0.809	-1.601	6.399	1.00	0.00
ATOM	273	O	ASP	16	0.210	-2.225	6.114	1.00	0.00
ATOM	268	CB	ASP	16	-2.158	0.106	5.144	1.00	0.00
ATOM	269	CG	ASP	16	-0.963	1.002	5.459	1.00	0.00
ATOM	270	OD1	ASP	16	0.068	0.895	4.768	1.00	0.00
ATOM	271	OD2	ASP	16	-1.084	1.850	6.371	1.00	0.00
ATOM	274	H	ASP	16	-3.856	-1.509	6.170	1.00	0.00
ATOM	275	HA	ASP	16	-1.588	-1.833	4.431	1.00	0.00
ATOM	276	1HB	ASP	16	-2.984	0.412	5.773	1.00	0.00
ATOM	277	2HB	ASP	16	-2.429	0.265	4.113	1.00	0.00
ATOM	278	N	PHE	17	-1.032	-1.073	7.598	1.00	0.00
ATOM	279	CA	PHE	17	-0.067	-1.183	8.684	1.00	0.00
ATOM	287	C	PHE	17	0.297	-2.635	8.965	1.00	0.00
ATOM	288	O	PHE	17	1.476	-2.990	9.017	1.00	0.00
ATOM	280	CB	PHE	17	-0.611	-0.531	9.955	1.00	0.00
ATOM	281	CG	PHE	17	0.471	-0.080	10.896	1.00	0.00
ATOM	282	CD1	PHE	17	1.548	0.660	10.434	1.00	0.00
ATOM	283	CD2	PHE	17	0.418	-0.409	12.241	1.00	0.00
ATOM	284	CE1	PHE	17	2.550	1.063	11.295	1.00	0.00
ATOM	285	CE2	PHE	17	1.416	-0.007	13.106	1.00	0.00
ATOM	286	CZ	PHE	17	2.484	0.730	12.633	1.00	0.00
ATOM	289	H	PHE	17	-1.868	-0.584	7.749	1.00	0.00
ATOM	290	HA	PHE	17	0.828	-0.659	8.381	1.00	0.00
ATOM	291	1HB	PHE	17	-1.233	-1.241	10.478	1.00	0.00
ATOM	292	2HB	PHE	17	-1.202	0.333	9.687	1.00	0.00
ATOM	293	HD1	PHE	17	1.600	0.924	9.388	1.00	0.00
ATOM	294	HD2	PHE	17	-0.418	-0.985	12.613	1.00	0.00
ATOM	295	HE1	PHE	17	3.385	1.639	10.922	1.00	0.00
ATOM	296	HE2	PHE	17	1.363	-0.270	14.152	1.00	0.00
ATOM	297	HZ	PHE	17	3.267	1.042	13.308	1.00	0.00
ATOM	298	N	VAL	18	-0.713	-3.474	9.144	1.00	0.00
ATOM	299	CA	VAL	18	-0.482	-4.884	9.417	1.00	0.00
ATOM	303	C	VAL	18	0.063	-5.583	8.175	1.00	0.00
ATOM	304	O	VAL	18	0.978	-6.399	8.262	1.00	0.00



ATOM	300	CB	VAL	18	-1.774	-5.586	9.897	1.00	0.00
ATOM	301	CG1	VAL	18	-1.531	-7.068	10.143	1.00	0.00
ATOM	302	CG2	VAL	18	-2.305	-4.917	11.158	1.00	0.00
ATOM	305	H	VAL	18	-1.635	-3.137	9.088	1.00	0.00
ATOM	306	HA	VAL	18	0.259	-4.953	10.204	1.00	0.00
ATOM	307	HB	VAL	18	-2.522	-5.491	9.124	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.955	-7.477	9.327	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.478	-7.584	10.209	1.00	0.00
ATOM	310	3HG1	VAL	18	-0.986	-7.195	11.067	1.00	0.00
ATOM	311	1HG2	VAL	18	-1.478	-4.578	11.763	1.00	0.00
ATOM	312	2HG2	VAL	18	-2.897	-5.626	11.720	1.00	0.00
ATOM	313	3HG2	VAL	18	-2.921	-4.073	10.885	1.00	0.00
ATOM	314	N	GLY	19	-0.490	-5.243	7.016	1.00	0.00
ATOM	315	CA	GLY	19	-0.041	-5.837	5.772	1.00	0.00
ATOM	316	C	GLY	19	1.421	-5.562	5.491	1.00	0.00
ATOM	317	O	GLY	19	2.196	-6.487	5.266	1.00	0.00
ATOM	318	H	GLY	19	-1.206	-4.571	7.005	1.00	0.00
ATOM	319	1HA	GLY	19	-0.634	-5.439	4.961	1.00	0.00
ATOM	320	2HA	GLY	19	-0.190	-6.905	5.821	1.00	0.00
ATOM	321	N	TYR	20	1.790	-4.290	5.502	1.00	0.00
ATOM	322	CA	TYR	20	3.161	-3.870	5.248	1.00	0.00
ATOM	331	C	TYR	20	4.113	-4.462	6.280	1.00	0.00
ATOM	332	O	TYR	20	5.193	-4.929	5.934	1.00	0.00
ATOM	323	CB	TYR	20	3.247	-2.339	5.260	1.00	0.00
ATOM	324	CG	TYR	20	4.641	-1.796	5.044	1.00	0.00
ATOM	325	CD1	TYR	20	5.320	-2.020	3.853	1.00	0.00
ATOM	326	CD2	TYR	20	5.276	-1.055	6.033	1.00	0.00
ATOM	327	CE1	TYR	20	6.593	-1.523	3.654	1.00	0.00
ATOM	328	CE2	TYR	20	6.549	-0.553	5.842	1.00	0.00
ATOM	329	CZ	TYR	20	7.203	-0.791	4.652	1.00	0.00
ATOM	330	OH	TYR	20	8.473	-0.294	4.458	1.00	0.00
ATOM	333	H	TYR	20	1.112	-3.600	5.681	1.00	0.00
ATOM	334	HA	TYR	20	3.440	-4.230	4.268	1.00	0.00
ATOM	335	1HB	TYR	20	2.892	-1.977	6.215	1.00	0.00
ATOM	336	2HB	TYR	20	2.615	-1.946	4.477	1.00	0.00
ATOM	337	HD1	TYR	20	4.839	-2.593	3.075	1.00	0.00
ATOM	338	HD2	TYR	20	4.760	-0.872	6.964	1.00	0.00
ATOM	339	HE1	TYR	20	7.105	-1.707	2.722	1.00	0.00
ATOM	340	HE2	TYR	20	7.026	0.019	6.623	1.00	0.00
ATOM	341	HH	TYR	20	9.090	-0.763	5.031	1.00	0.00
ATOM	342	N	LYS	21	3.700	-4.442	7.543	1.00	0.00
ATOM	343	CA	LYS	21	4.513	-4.978	8.629	1.00	0.00
ATOM	349	C	LYS	21	4.755	-6.472	8.441	1.00	0.00
ATOM	350	O	LYS	21	5.890	-6.944	8.529	1.00	0.00
ATOM	344	CB	LYS	21	3.828	-4.727	9.975	1.00	0.00
ATOM	345	CG	LYS	21	4.624	-3.826	10.907	1.00	0.00
ATOM	346	CD	LYS	21	5.866	-4.527	11.435	1.00	0.00
ATOM	347	CE	LYS	21	6.966	-3.535	11.773	1.00	0.00
ATOM	348	NZ	LYS	21	7.627	-3.864	13.063	1.00	0.00
ATOM	351	H	LYS	21	2.821	-4.057	7.751	1.00	0.00
ATOM	352	HA	LYS	21	5.464	-4.466	8.617	1.00	0.00
ATOM	353	1HB	LYS	21	3.669	-5.673	10.470	1.00	0.00
ATOM	354	2HB	LYS	21	2.871	-4.262	9.794	1.00	0.00
ATOM	355	1HG	LYS	21	3.999	-3.545	11.740	1.00	0.00
ATOM	356	2HG	LYS	21	4.926	-2.941	10.366	1.00	0.00
ATOM	357	1HD	LYS	21	6.228	-5.212	10.683	1.00	0.00
ATOM	358	2HD	LYS	21	5.604	-5.075	12.328	1.00	0.00
ATOM	359	1HE	LYS	21	6.535	-2.546	11.839	1.00	0.00
ATOM	360	2HE	LYS	21	7.705	-3.554	10.987	1.00	0.00
ATOM	361	1HZ	LYS	21	7.726	-3.001	13.653	1.00	0.00
ATOM	362	2HZ	LYS	21	8.579	-4.254	12.891	1.00	0.00
ATOM	363	3HZ	LYS	21	7.069	-4.561	13.588	1.00	0.00
ATOM	364	N	LEU	22	3.684	-7.207	8.181	1.00	0.00
ATOM	365	CA	LEU	22	3.770	-8.647	7.980	1.00	0.00
ATOM	370	C	LEU	22	4.558	-8.965	6.720	1.00	0.00
ATOM	371	O	LEU	22	5.459	-9.794	6.735	1.00	0.00
ATOM	366	CB	LEU	22	2.371	-9.259	7.872	1.00	0.00
ATOM	367	CG	LEU	22	1.757	-9.758	9.181	1.00	0.00
ATOM	368	CD1	LEU	22	1.789	-8.671	10.242	1.00	0.00
ATOM	369	CD2	LEU	22	0.331	-10.224	8.941	1.00	0.00
ATOM	372	H	LEU	22	2.805	-6.768	8.124	1.00	0.00
ATOM	373	HA	LEU	22	4.278	-9.075	8.830	1.00	0.00
ATOM	374	1HB	LEU	22	2.420	-10.092	7.186	1.00	0.00



ATOM	375	2HB	LEU	22	1.711	-8.513	7.455	1.00	0.00
ATOM	376	HG	LEU	22	2.325	-10.600	9.550	1.00	0.00
ATOM	377	1HD1	LEU	22	0.781	-8.442	10.554	1.00	0.00
ATOM	378	2HD1	LEU	22	2.250	-7.784	9.834	1.00	0.00
ATOM	379	3HD1	LEU	22	2.359	-9.015	11.092	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.319	-9.365	8.860	1.00	0.00
ATOM	381	2HD2	LEU	22	0.009	-10.842	9.766	1.00	0.00
ATOM	382	3HD2	LEU	22	0.289	-10.794	8.025	1.00	0.00
ATOM	383	N	ARG	23	4.203	-8.296	5.633	1.00	0.00
ATOM	384	CA	ARG	23	4.854	-8.494	4.341	1.00	0.00
ATOM	392	C	ARG	23	6.335	-8.115	4.397	1.00	0.00
ATOM	393	O	ARG	23	7.127	-8.553	3.564	1.00	0.00
ATOM	385	CB	ARG	23	4.109	-7.682	3.269	1.00	0.00
ATOM	386	CG	ARG	23	4.537	-7.959	1.840	1.00	0.00
ATOM	387	CD	ARG	23	4.209	-6.773	0.945	1.00	0.00
ATOM	388	NE	ARG	23	5.202	-5.704	1.084	1.00	0.00
ATOM	389	CZ	ARG	23	5.921	-5.201	0.073	1.00	0.00
ATOM	390	NH1	ARG	23	5.697	-5.593	-1.178	1.00	0.00
ATOM	391	NH2	ARG	23	6.850	-4.281	0.317	1.00	0.00
ATOM	394	H	ARG	23	3.468	-7.643	5.697	1.00	0.00
ATOM	395	HA	ARG	23	4.781	-9.544	4.096	1.00	0.00
ATOM	396	1HB	ARG	23	4.255	-6.632	3.462	1.00	0.00
ATOM	397	2HB	ARG	23	3.056	-7.901	3.346	1.00	0.00
ATOM	398	1HG	ARG	23	4.016	-8.831	1.477	1.00	0.00
ATOM	399	2HG	ARG	23	5.603	-8.134	1.818	1.00	0.00
ATOM	400	1HD	ARG	23	3.230	-6.385	1.225	1.00	0.00
ATOM	401	2HD	ARG	23	4.188	-7.105	-0.083	1.00	0.00
ATOM	402	HE	ARG	23	5.362	-5.360	1.989	1.00	0.00
ATOM	403	1HH1	ARG	23	4.981	-6.272	-1.384	1.00	0.00
ATOM	404	2HH1	ARG	23	6.242	-5.218	-1.929	1.00	0.00
ATOM	405	1HH2	ARG	23	7.013	-3.965	1.255	1.00	0.00
ATOM	406	2HH2	ARG	23	7.395	-3.899	-0.434	1.00	0.00
ATOM	407	N	GLN	24	6.706	-7.310	5.386	1.00	0.00
ATOM	408	CA	GLN	24	8.095	-6.892	5.546	1.00	0.00
ATOM	414	C	GLN	24	8.897	-7.922	6.341	1.00	0.00
ATOM	415	O	GLN	24	10.097	-8.090	6.116	1.00	0.00
ATOM	409	CB	GLN	24	8.169	-5.534	6.243	1.00	0.00
ATOM	410	CG	GLN	24	8.713	-4.423	5.357	1.00	0.00
ATOM	411	CD	GLN	24	9.579	-3.442	6.123	1.00	0.00
ATOM	412	OE1	GLN	24	9.458	-3.302	7.339	1.00	0.00
ATOM	413	NE2	GLN	24	10.455	-2.747	5.414	1.00	0.00
ATOM	416	H	GLN	24	6.032	-6.994	6.030	1.00	0.00
ATOM	417	HA	GLN	24	8.527	-6.803	4.561	1.00	0.00
ATOM	418	1HB	GLN	24	8.809	-5.621	7.108	1.00	0.00
ATOM	419	2HB	GLN	24	7.178	-5.254	6.567	1.00	0.00
ATOM	420	1HG	GLN	24	7.881	-3.888	4.923	1.00	0.00
ATOM	421	2HG	GLN	24	9.305	-4.866	4.570	1.00	0.00
ATOM	422	1HE2	GLN	24	10.494	-2.896	4.442	1.00	0.00
ATOM	423	2HE2	GLN	24	11.048	-2.121	5.892	1.00	0.00
ATOM	424	N	LYS	25	8.239	-8.596	7.282	1.00	0.00
ATOM	425	CA	LYS	25	8.911	-9.588	8.113	1.00	0.00
ATOM	431	C	LYS	25	7.968	-10.718	8.525	1.00	0.00
ATOM	432	O	LYS	25	7.513	-10.776	9.669	1.00	0.00
ATOM	426	CB	LYS	25	9.491	-8.914	9.357	1.00	0.00
ATOM	427	CG	LYS	25	10.674	-9.652	9.950	1.00	0.00
ATOM	428	CD	LYS	25	11.069	-9.065	11.292	1.00	0.00
ATOM	429	CE	LYS	25	11.555	-10.141	12.250	1.00	0.00
ATOM	430	NZ	LYS	25	12.244	-9.559	13.431	1.00	0.00
ATOM	433	H	LYS	25	7.287	-8.414	7.430	1.00	0.00
ATOM	434	HA	LYS	25	9.722	-10.007	7.535	1.00	0.00
ATOM	435	1HB	LYS	25	8.719	-8.849	10.109	1.00	0.00
ATOM	436	2HB	LYS	25	9.811	-7.916	9.096	1.00	0.00
ATOM	437	1HG	LYS	25	11.511	-9.576	9.272	1.00	0.00
ATOM	438	2HG	LYS	25	10.409	-10.690	10.086	1.00	0.00
ATOM	439	1HD	LYS	25	10.211	-8.572	11.724	1.00	0.00
ATOM	440	2HD	LYS	25	11.860	-8.346	11.139	1.00	0.00
ATOM	441	1HE	LYS	25	12.242	-10.789	11.726	1.00	0.00
ATOM	442	2HE	LYS	25	10.706	-10.716	12.587	1.00	0.00
ATOM	443	1HZ	LYS	25	12.214	-10.225	14.234	1.00	0.00
ATOM	444	2HZ	LYS	25	11.781	-8.669	13.716	1.00	0.00
ATOM	445	3HZ	LYS	25	13.242	-9.359	13.200	1.00	0.00
ATOM	446	N	GLY	26	7.684	-11.618	7.592	1.00	0.00
ATOM	447	CA	GLY	26	6.808	-12.737	7.888	1.00	0.00



ATOM	448	C	GLY	26	6.008	-13.182	6.687	1.00	0.00
ATOM	449	O	GLY	26	6.237	-14.255	6.130	1.00	0.00
ATOM	450	H	GLY	26	8.075	-11.525	6.698	1.00	0.00
ATOM	451	1HA	GLY	26	6.125	-12.443	8.671	1.00	0.00
ATOM	452	2HA	GLY	26	7.401	-13.566	8.238	1.00	0.00
ATOM	453	N	TYR	27	5.077	-12.346	6.280	1.00	0.00
ATOM	454	CA	TYR	27	4.229	-12.626	5.136	1.00	0.00
ATOM	463	C	TYR	27	4.842	-12.042	3.866	1.00	0.00
ATOM	464	O	TYR	27	4.182	-11.327	3.112	1.00	0.00
ATOM	455	CB	TYR	27	2.827	-12.054	5.369	1.00	0.00
ATOM	456	CG	TYR	27	1.743	-12.746	4.571	1.00	0.00
ATOM	457	CD1	TYR	27	1.775	-14.118	4.362	1.00	0.00
ATOM	458	CD2	TYR	27	0.690	-12.022	4.024	1.00	0.00
ATOM	459	CE1	TYR	27	0.787	-14.751	3.632	1.00	0.00
ATOM	460	CE2	TYR	27	-0.302	-12.649	3.293	1.00	0.00
ATOM	461	CZ	TYR	27	-0.248	-14.013	3.101	1.00	0.00
ATOM	462	OH	TYR	27	-1.229	-14.641	2.370	1.00	0.00
ATOM	465	H	TYR	27	4.961	-11.496	6.763	1.00	0.00
ATOM	466	HA	TYR	27	4.159	-13.699	5.029	1.00	0.00
ATOM	467	1HB	TYR	27	2.824	-11.008	5.100	1.00	0.00
ATOM	468	2HB	TYR	27	2.577	-12.151	6.415	1.00	0.00
ATOM	469	HD1	TYR	27	0.651	-10.953	4.178	1.00	0.00
ATOM	470	HD2	TYR	27	2.586	-14.694	4.781	1.00	0.00
ATOM	471	HE1	TYR	27	-1.112	-12.069	2.876	1.00	0.00
ATOM	472	HE2	TYR	27	0.829	-15.819	3.481	1.00	0.00
ATOM	473	HH	TYR	27	-1.990	-14.059	2.286	1.00	0.00
ATOM	474	N	VAL	28	6.110	-12.354	3.635	1.00	0.00
ATOM	475	CA	VAL	28	6.814	-11.859	2.459	1.00	0.00
ATOM	479	C	VAL	28	6.416	-12.670	1.227	1.00	0.00
ATOM	480	O	VAL	28	6.439	-12.173	0.102	1.00	0.00
ATOM	476	CB	VAL	28	8.350	-11.903	2.664	1.00	0.00
ATOM	477	CG1	VAL	28	8.854	-13.334	2.785	1.00	0.00
ATOM	478	CG2	VAL	28	9.068	-11.170	1.538	1.00	0.00
ATOM	481	H	VAL	28	6.584	-12.929	4.274	1.00	0.00
ATOM	482	HA	VAL	28	6.520	-10.830	2.308	1.00	0.00
ATOM	483	HB	VAL	28	8.575	-11.394	3.590	1.00	0.00
ATOM	484	1HG1	VAL	28	8.168	-14.001	2.283	1.00	0.00
ATOM	485	2HG1	VAL	28	8.921	-13.606	3.828	1.00	0.00
ATOM	486	3HG1	VAL	28	9.830	-13.412	2.329	1.00	0.00
ATOM	487	1HG2	VAL	28	8.484	-11.242	0.633	1.00	0.00
ATOM	488	2HG2	VAL	28	10.037	-11.619	1.378	1.00	0.00
ATOM	489	3HG2	VAL	28	9.191	-10.133	1.806	1.00	0.00
ATOM	490	N	CYS	29	6.012	-13.913	1.458	1.00	0.00
ATOM	491	CA	CYS	29	5.571	-14.787	0.381	1.00	0.00
ATOM	494	C	CYS	29	4.168	-14.383	-0.057	1.00	0.00
ATOM	495	O	CYS	29	3.702	-14.754	-1.133	1.00	0.00
ATOM	492	CB	CYS	29	5.584	-16.248	0.839	1.00	0.00
ATOM	493	SG	CYS	29	5.745	-17.445	-0.506	1.00	0.00
ATOM	496	H	CYS	29	5.991	-14.243	2.379	1.00	0.00
ATOM	497	HA	CYS	29	6.250	-14.667	-0.450	1.00	0.00
ATOM	498	1HB	CYS	29	4.662	-16.460	1.360	1.00	0.00
ATOM	499	2HB	CYS	29	6.413	-16.397	1.513	1.00	0.00
ATOM	500	HG	CYS	29	6.988	-17.371	-0.978	1.00	0.00
ATOM	501	N	GLY	30	3.509	-13.598	0.789	1.00	0.00
ATOM	502	CA	GLY	30	2.176	-13.123	0.490	1.00	0.00
ATOM	503	C	GLY	30	2.167	-11.633	0.238	1.00	0.00
ATOM	504	O	GLY	30	1.364	-10.896	0.810	1.00	0.00
ATOM	505	H	GLY	30	3.945	-13.324	1.622	1.00	0.00
ATOM	506	1HA	GLY	30	1.529	-13.341	1.321	1.00	0.00
ATOM	507	2HA	GLY	30	1.809	-13.632	-0.389	1.00	0.00
ATOM	508	N	ALA	31	3.078	-11.196	-0.616	1.00	0.00
ATOM	509	CA	ALA	31	3.198	-9.789	-0.962	1.00	0.00
ATOM	511	C	ALA	31	1.935	-9.307	-1.665	1.00	0.00
ATOM	512	O	ALA	31	1.611	-9.767	-2.764	1.00	0.00
ATOM	510	CB	ALA	31	4.424	-9.565	-1.833	1.00	0.00
ATOM	513	H	ALA	31	3.688	-11.843	-1.025	1.00	0.00
ATOM	514	HA	ALA	31	3.326	-9.229	-0.046	1.00	0.00
ATOM	515	1HB	ALA	31	4.540	-8.510	-2.026	1.00	0.00
ATOM	516	2HB	ALA	31	4.302	-10.092	-2.768	1.00	0.00
ATOM	517	3HB	ALA	31	5.301	-9.937	-1.322	1.00	0.00
ATOM	518	N	GLY	32	1.212	-8.400	-1.020	1.00	0.00
ATOM	519	CA	GLY	32	-0.023	-7.901	-1.594	1.00	0.00
ATOM	520	C	GLY	32	-0.653	-6.767	-0.798	1.00	0.00



ATOM	521	O	GLY	32	-1.032	-5.752	-1.378	1.00	0.00
ATOM	522	H	GLY	32	1.510	-8.077	-0.140	1.00	0.00
ATOM	523	1HA	GLY	32	-0.729	-8.716	-1.652	1.00	0.00
ATOM	524	2HA	GLY	32	0.180	-7.548	-2.594	1.00	0.00
ATOM	525	N	PRO	33	-0.795	-6.896	0.536	1.00	0.00
ATOM	526	CA	PRO	33	-1.405	-5.853	1.359	1.00	0.00
ATOM	530	C	PRO	33	-0.449	-4.695	1.607	1.00	0.00
ATOM	531	O	PRO	33	-0.804	-3.532	1.438	1.00	0.00
ATOM	527	CB	PRO	33	-1.727	-6.573	2.682	1.00	0.00
ATOM	528	CG	PRO	33	-1.442	-8.020	2.435	1.00	0.00
ATOM	529	CD	PRO	33	-0.403	-8.045	1.358	1.00	0.00
ATOM	532	HA	PRO	33	-2.316	-5.481	0.916	1.00	0.00
ATOM	533	1HB	PRO	33	-2.761	-6.414	2.935	1.00	0.00
ATOM	534	2HB	PRO	33	-1.097	-6.180	3.466	1.00	0.00
ATOM	535	1HG	PRO	33	-2.340	-8.521	2.103	1.00	0.00
ATOM	536	2HG	PRO	33	-1.063	-8.481	3.335	1.00	0.00
ATOM	537	1HD	PRO	33	-0.443	-8.959	0.794	1.00	0.00
ATOM	538	2HD	PRO	33	0.581	-7.902	1.780	1.00	0.00
ATOM	539	N	GLY	34	0.763	-5.033	2.016	1.00	0.00
ATOM	540	CA	GLY	34	1.768	-4.030	2.307	1.00	0.00
ATOM	541	C	GLY	34	2.529	-3.540	1.090	1.00	0.00
ATOM	542	O	GLY	34	3.640	-3.030	1.222	1.00	0.00
ATOM	543	H	GLY	34	0.972	-5.979	2.137	1.00	0.00
ATOM	544	1HA	GLY	34	2.475	-4.448	3.009	1.00	0.00
ATOM	545	2HA	GLY	34	1.286	-3.184	2.772	1.00	0.00
ATOM	546	N	GLU	35	1.944	-3.681	-0.093	1.00	0.00
ATOM	547	CA	GLU	35	2.603	-3.220	-1.310	1.00	0.00
ATOM	553	C	GLU	35	2.508	-1.703	-1.407	1.00	0.00
ATOM	554	O	GLU	35	3.412	-1.036	-1.914	1.00	0.00
ATOM	548	CB	GLU	35	1.978	-3.854	-2.545	1.00	0.00
ATOM	549	CG	GLU	35	1.913	-5.361	-2.468	1.00	0.00
ATOM	550	CD	GLU	35	2.891	-6.038	-3.397	1.00	0.00
ATOM	551	OE1	GLU	35	2.668	-6.011	-4.624	1.00	0.00
ATOM	552	OE2	GLU	35	3.879	-6.619	-2.901	1.00	0.00
ATOM	555	H	GLU	35	1.055	-4.093	-0.148	1.00	0.00
ATOM	556	HA	GLU	35	3.643	-3.504	-1.250	1.00	0.00
ATOM	557	1HB	GLU	35	2.562	-3.583	-3.412	1.00	0.00
ATOM	558	2HB	GLU	35	0.973	-3.476	-2.664	1.00	0.00
ATOM	559	1HG	GLU	35	0.913	-5.674	-2.725	1.00	0.00
ATOM	560	2HG	GLU	35	2.135	-5.664	-1.455	1.00	0.00
ATOM	561	N	GLY	36	1.408	-1.172	-0.895	1.00	0.00
ATOM	562	CA	GLY	36	1.195	0.261	-0.894	1.00	0.00
ATOM	563	C	GLY	36	1.485	0.842	0.472	1.00	0.00
ATOM	564	O	GLY	36	0.777	0.544	1.430	1.00	0.00
ATOM	565	H	GLY	36	0.736	-1.761	-0.492	1.00	0.00
ATOM	566	1HA	GLY	36	0.168	0.469	-1.155	1.00	0.00
ATOM	567	2HA	GLY	36	1.848	0.717	-1.623	1.00	0.00
ATOM	568	N	PRO	37	2.551	1.643	0.603	1.00	0.00
ATOM	569	CA	PRO	37	2.947	2.220	1.883	1.00	0.00
ATOM	573	C	PRO	37	2.214	3.516	2.243	1.00	0.00
ATOM	574	O	PRO	37	1.002	3.650	2.053	1.00	0.00
ATOM	570	CB	PRO	37	4.438	2.480	1.677	1.00	0.00
ATOM	571	CG	PRO	37	4.571	2.783	0.223	1.00	0.00
ATOM	572	CD	PRO	37	3.480	2.012	-0.481	1.00	0.00
ATOM	575	HA	PRO	37	2.820	1.510	2.688	1.00	0.00
ATOM	576	1HB	PRO	37	5.002	1.601	1.950	1.00	0.00
ATOM	577	2HB	PRO	37	4.747	3.317	2.286	1.00	0.00
ATOM	578	1HG	PRO	37	5.540	2.463	-0.128	1.00	0.00
ATOM	579	2HG	PRO	37	4.444	3.843	0.058	1.00	0.00
ATOM	580	1HD	PRO	37	3.889	1.130	-0.951	1.00	0.00
ATOM	581	2HD	PRO	37	2.989	2.637	-1.210	1.00	0.00
ATOM	582	N	ALA	38	2.971	4.458	2.793	1.00	0.00
ATOM	583	CA	ALA	38	2.448	5.745	3.227	1.00	0.00
ATOM	585	C	ALA	38	2.040	6.642	2.061	1.00	0.00
ATOM	586	O	ALA	38	2.781	7.540	1.673	1.00	0.00
ATOM	584	CB	ALA	38	3.491	6.442	4.084	1.00	0.00
ATOM	587	H	ALA	38	3.922	4.270	2.927	1.00	0.00
ATOM	588	HA	ALA	38	1.581	5.560	3.845	1.00	0.00
ATOM	589	1HB	ALA	38	3.348	7.511	4.025	1.00	0.00
ATOM	590	2HB	ALA	38	4.478	6.191	3.726	1.00	0.00
ATOM	591	3HB	ALA	38	3.387	6.120	5.109	1.00	0.00
ATOM	592	N	ALA	39	0.857	6.396	1.514	1.00	0.00
ATOM	593	CA	ALA	39	0.351	7.189	0.399	1.00	0.00



ATOM	595	C	ALA	39	-1.047	7.720	0.697	1.00	0.00
ATOM	596	O	ALA	39	-1.644	8.421	-0.116	1.00	0.00
ATOM	594	CB	ALA	39	0.343	6.357	-0.877	1.00	0.00
ATOM	597	H	ALA	39	0.309	5.661	1.865	1.00	0.00
ATOM	598	HA	ALA	39	1.019	8.025	0.253	1.00	0.00
ATOM	599	1HB	ALA	39	1.156	5.648	-0.848	1.00	0.00
ATOM	600	2HB	ALA	39	0.460	7.006	-1.731	1.00	0.00
ATOM	601	3HB	ALA	39	-0.595	5.826	-0.954	1.00	0.00
ATOM	602	N	ASP	40	-1.560	7.381	1.872	1.00	0.00
ATOM	603	CA	ASP	40	-2.885	7.813	2.283	1.00	0.00
ATOM	608	C	ASP	40	-2.787	8.821	3.419	1.00	0.00
ATOM	609	O	ASP	40	-1.764	8.889	4.106	1.00	0.00
ATOM	604	CB	ASP	40	-3.720	6.612	2.722	1.00	0.00
ATOM	605	CG	ASP	40	-4.191	5.769	1.553	1.00	0.00
ATOM	606	OD1	ASP	40	-5.237	6.099	0.967	1.00	0.00
ATOM	607	OD2	ASP	40	-3.512	4.775	1.223	1.00	0.00
ATOM	610	H	ASP	40	-1.039	6.828	2.474	1.00	0.00
ATOM	611	HA	ASP	40	-3.360	8.283	1.435	1.00	0.00
ATOM	612	1HB	ASP	40	-4.584	6.970	3.256	1.00	0.00
ATOM	613	2HB	ASP	40	-3.127	5.991	3.378	1.00	0.00
ATOM	614	N	PRO	41	-3.861	9.598	3.649	1.00	0.00
ATOM	615	CA	PRO	41	-3.916	10.609	4.706	1.00	0.00
ATOM	619	C	PRO	41	-4.137	10.006	6.094	1.00	0.00
ATOM	620	O	PRO	41	-4.942	10.496	6.886	1.00	0.00
ATOM	616	CB	PRO	41	-5.089	11.505	4.301	1.00	0.00
ATOM	617	CG	PRO	41	-5.918	10.715	3.337	1.00	0.00
ATOM	618	CD	PRO	41	-5.112	9.522	2.886	1.00	0.00
ATOM	621	HA	PRO	41	-3.010	11.197	4.724	1.00	0.00
ATOM	622	1HB	PRO	41	-4.707	12.404	3.841	1.00	0.00
ATOM	623	2HB	PRO	41	-5.659	11.765	5.180	1.00	0.00
ATOM	624	1HG	PRO	41	-6.167	11.333	2.487	1.00	0.00
ATOM	625	2HG	PRO	41	-6.821	10.381	3.826	1.00	0.00
ATOM	626	1HD	PRO	41	-4.912	9.570	1.828	1.00	0.00
ATOM	627	2HD	PRO	41	-5.635	8.609	3.121	1.00	0.00
ATOM	628	N	LEU	42	-3.385	8.952	6.368	1.00	0.00
ATOM	629	CA	LEU	42	-3.421	8.237	7.643	1.00	0.00
ATOM	634	C	LEU	42	-2.321	7.191	7.635	1.00	0.00
ATOM	635	O	LEU	42	-1.793	6.808	8.676	1.00	0.00
ATOM	630	CB	LEU	42	-4.773	7.553	7.895	1.00	0.00
ATOM	631	CG	LEU	42	-5.628	7.272	6.653	1.00	0.00
ATOM	632	CD1	LEU	42	-5.478	5.827	6.208	1.00	0.00
ATOM	633	CD2	LEU	42	-7.088	7.593	6.929	1.00	0.00
ATOM	636	H	LEU	42	-2.756	8.650	5.682	1.00	0.00
ATOM	637	HA	LEU	42	-3.222	8.949	8.432	1.00	0.00
ATOM	638	1HB	LEU	42	-5.347	8.180	8.564	1.00	0.00
ATOM	639	2HB	LEU	42	-4.577	6.613	8.394	1.00	0.00
ATOM	640	HG	LEU	42	-5.293	7.905	5.844	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.837	5.721	5.195	1.00	0.00
ATOM	642	2HD1	LEU	42	-6.052	5.187	6.862	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.436	5.544	6.252	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.338	8.545	6.485	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.250	7.641	7.996	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.714	6.822	6.505	1.00	0.00
ATOM	647	N	HIS	43	-1.984	6.742	6.433	1.00	0.00
ATOM	648	CA	HIS	43	-0.945	5.742	6.236	1.00	0.00
ATOM	655	C	HIS	43	0.405	6.273	6.705	1.00	0.00
ATOM	656	O	HIS	43	1.101	5.628	7.487	1.00	0.00
ATOM	649	CB	HIS	43	-0.847	5.381	4.759	1.00	0.00
ATOM	650	CG	HIS	43	-1.736	4.250	4.317	1.00	0.00
ATOM	651	ND1	HIS	43	-1.451	3.453	3.228	1.00	0.00
ATOM	652	CD2	HIS	43	-2.939	3.826	4.781	1.00	0.00
ATOM	653	CE1	HIS	43	-2.439	2.603	3.035	1.00	0.00
ATOM	654	NE2	HIS	43	-3.356	2.803	3.965	1.00	0.00
ATOM	657	H	HIS	43	-2.449	7.098	5.651	1.00	0.00
ATOM	658	HA	HIS	43	-1.202	4.864	6.808	1.00	0.00
ATOM	659	1HB	HIS	43	0.171	5.115	4.544	1.00	0.00
ATOM	660	2HB	HIS	43	-1.112	6.249	4.174	1.00	0.00
ATOM	661	HD1	HIS	43	-0.621	3.476	2.695	1.00	0.00
ATOM	662	HD2	HIS	43	-3.473	4.218	5.639	1.00	0.00
ATOM	663	HE1	HIS	43	-2.490	1.864	2.249	1.00	0.00
ATOM	664	HE2	HIS	43	-4.065	2.165	4.187	1.00	0.00
ATOM	665	N	GLN	44	0.765	7.465	6.224	1.00	0.00
ATOM	666	CA	GLN	44	2.034	8.093	6.599	1.00	0.00



ATOM	672	C	GLN	44	2.049	8.402	8.086	1.00	0.00
ATOM	673	O	GLN	44	3.106	8.545	8.695	1.00	0.00
ATOM	667	CB	GLN	44	2.274	9.390	5.813	1.00	0.00
ATOM	668	CG	GLN	44	1.535	9.470	4.487	1.00	0.00
ATOM	669	CD	GLN	44	1.106	10.883	4.146	1.00	0.00
ATOM	670	OE1	GLN	44	-0.010	11.294	4.455	1.00	0.00
ATOM	671	NE2	GLN	44	1.992	11.635	3.515	1.00	0.00
ATOM	674	H	GLN	44	0.164	7.934	5.608	1.00	0.00
ATOM	675	HA	GLN	44	2.828	7.394	6.378	1.00	0.00
ATOM	676	1HB	GLN	44	3.331	9.482	5.615	1.00	0.00
ATOM	677	2HB	GLN	44	1.960	10.225	6.420	1.00	0.00
ATOM	678	1HG	GLN	44	0.657	8.844	4.538	1.00	0.00
ATOM	679	2HG	GLN	44	2.186	9.111	3.704	1.00	0.00
ATOM	680	1HE2	GLN	44	2.868	11.245	3.305	1.00	0.00
ATOM	681	2HE2	GLN	44	1.738	12.552	3.278	1.00	0.00
ATOM	682	N	ALA	45	0.862	8.491	8.657	1.00	0.00
ATOM	683	CA	ALA	45	0.722	8.782	10.073	1.00	0.00
ATOM	685	C	ALA	45	1.070	7.564	10.914	1.00	0.00
ATOM	686	O	ALA	45	1.894	7.643	11.830	1.00	0.00
ATOM	684	CB	ALA	45	-0.689	9.254	10.378	1.00	0.00
ATOM	687	H	ALA	45	0.060	8.346	8.108	1.00	0.00
ATOM	688	HA	ALA	45	1.405	9.582	10.317	1.00	0.00
ATOM	689	1HB	ALA	45	-1.362	8.898	9.612	1.00	0.00
ATOM	690	2HB	ALA	45	-0.709	10.334	10.401	1.00	0.00
ATOM	691	3HB	ALA	45	-0.998	8.868	11.338	1.00	0.00
ATOM	692	N	MET	46	0.443	6.435	10.601	1.00	0.00
ATOM	693	CA	MET	46	0.690	5.200	11.338	1.00	0.00
ATOM	698	C	MET	46	2.125	4.722	11.152	1.00	0.00
ATOM	699	O	MET	46	2.743	4.212	12.089	1.00	0.00
ATOM	694	CB	MET	46	-0.278	4.109	10.891	1.00	0.00
ATOM	695	CG	MET	46	-0.884	3.340	12.048	1.00	0.00
ATOM	696	SD	MET	46	-2.617	2.956	11.788	1.00	0.00
ATOM	697	CE	MET	46	-3.369	4.110	12.920	1.00	0.00
ATOM	700	H	MET	46	-0.210	6.432	9.857	1.00	0.00
ATOM	701	HA	MET	46	0.528	5.404	12.386	1.00	0.00
ATOM	702	1HB	MET	46	0.250	3.411	10.258	1.00	0.00
ATOM	703	2HB	MET	46	-1.080	4.552	10.325	1.00	0.00
ATOM	704	1HG	MET	46	-0.794	3.935	12.944	1.00	0.00
ATOM	705	2HG	MET	46	-0.347	2.419	12.175	1.00	0.00
ATOM	706	1HE	MET	46	-3.384	3.684	13.912	1.00	0.00
ATOM	707	2HE	MET	46	-4.382	4.316	12.599	1.00	0.00
ATOM	708	3HE	MET	46	-2.800	5.028	12.930	1.00	0.00
ATOM	709	N	ARG	47	2.638	4.886	9.941	1.00	0.00
ATOM	710	CA	ARG	47	3.996	4.466	9.607	1.00	0.00
ATOM	718	C	ARG	47	5.047	5.176	10.461	1.00	0.00
ATOM	719	O	ARG	47	6.019	4.560	10.897	1.00	0.00
ATOM	711	CB	ARG	47	4.268	4.731	8.125	1.00	0.00
ATOM	712	CG	ARG	47	5.318	3.814	7.521	1.00	0.00
ATOM	713	CD	ARG	47	6.152	4.536	6.476	1.00	0.00
ATOM	714	NE	ARG	47	7.455	4.935	7.001	1.00	0.00
ATOM	715	CZ	ARG	47	8.251	5.840	6.436	1.00	0.00
ATOM	716	NH1	ARG	47	7.880	6.460	5.320	1.00	0.00
ATOM	717	NH2	ARG	47	9.421	6.119	6.993	1.00	0.00
ATOM	720	H	ARG	47	2.081	5.294	9.242	1.00	0.00
ATOM	721	HA	ARG	47	4.065	3.404	9.787	1.00	0.00
ATOM	722	1HB	ARG	47	4.604	5.751	8.010	1.00	0.00
ATOM	723	2HB	ARG	47	3.348	4.599	7.574	1.00	0.00
ATOM	724	1HG	ARG	47	4.824	2.972	7.057	1.00	0.00
ATOM	725	2HG	ARG	47	5.971	3.462	8.307	1.00	0.00
ATOM	726	1HD	ARG	47	5.619	5.419	6.154	1.00	0.00
ATOM	727	2HD	ARG	47	6.300	3.879	5.633	1.00	0.00
ATOM	728	HE	ARG	47	7.763	4.491	7.831	1.00	0.00
ATOM	729	1HH1	ARG	47	7.001	6.252	4.897	1.00	0.00
ATOM	730	2HH1	ARG	47	8.494	7.137	4.889	1.00	0.00
ATOM	731	1HH2	ARG	47	9.697	5.645	7.840	1.00	0.00
ATOM	732	2HH2	ARG	47	10.043	6.788	6.572	1.00	0.00
ATOM	733	N	ALA	48	4.851	6.467	10.704	1.00	0.00
ATOM	734	CA	ALA	48	5.798	7.237	11.502	1.00	0.00
ATOM	736	C	ALA	48	5.582	6.965	12.976	1.00	0.00
ATOM	737	O	ALA	48	6.509	7.032	13.781	1.00	0.00
ATOM	735	CB	ALA	48	5.668	8.723	11.203	1.00	0.00
ATOM	738	H	ALA	48	4.054	6.911	10.345	1.00	0.00
ATOM	739	HA	ALA	48	6.798	6.919	11.234	1.00	0.00



ATOM	740	1HB	ALA	48	6.642	9.134	10.985	1.00	0.00
ATOM	741	2HB	ALA	48	5.248	9.228	12.060	1.00	0.00
ATOM	742	3HB	ALA	48	5.019	8.863	10.350	1.00	0.00
ATOM	743	N	ALA	49	4.350	6.633	13.321	1.00	0.00
ATOM	744	CA	ALA	49	4.013	6.320	14.689	1.00	0.00
ATOM	746	C	ALA	49	4.689	5.029	15.090	1.00	0.00
ATOM	747	O	ALA	49	5.501	5.006	16.018	1.00	0.00
ATOM	749	CB	ALA	49	2.510	6.209	14.853	1.00	0.00
ATOM	748	H	ALA	49	3.657	6.579	12.628	1.00	0.00
ATOM	749	HA	ALA	49	4.375	7.118	15.319	1.00	0.00
ATOM	750	1HB	ALA	49	2.212	5.176	14.754	1.00	0.00
ATOM	751	2HB	ALA	49	2.020	6.801	14.093	1.00	0.00
ATOM	752	3HB	ALA	49	2.227	6.572	15.830	1.00	0.00
ATOM	753	N	GLY	50	4.348	3.964	14.371	1.00	0.00
ATOM	754	CA	GLY	50	4.918	2.660	14.628	1.00	0.00
ATOM	755	C	GLY	50	6.425	2.700	14.738	1.00	0.00
ATOM	756	O	GLY	50	6.980	2.174	15.684	1.00	0.00
ATOM	757	H	GLY	50	3.689	4.068	13.648	1.00	0.00
ATOM	758	1HA	GLY	50	4.644	1.993	13.824	1.00	0.00
ATOM	759	2HA	GLY	50	4.511	2.277	15.553	1.00	0.00
ATOM	760	N	ASP	51	7.080	3.340	13.774	1.00	0.00
ATOM	761	CA	ASP	51	8.540	3.455	13.766	1.00	0.00
ATOM	766	C	ASP	51	9.069	4.042	15.073	1.00	0.00
ATOM	767	O	ASP	51	9.950	3.464	15.718	1.00	0.00
ATOM	762	CB	ASP	51	8.988	4.334	12.593	1.00	0.00
ATOM	763	CG	ASP	51	10.416	4.051	12.168	1.00	0.00
ATOM	764	OD1	ASP	51	11.350	4.450	12.891	1.00	0.00
ATOM	765	OD2	ASP	51	10.611	3.433	11.097	1.00	0.00
ATOM	768	H	ASP	51	6.570	3.748	13.044	1.00	0.00
ATOM	769	HA	ASP	51	8.952	2.466	13.640	1.00	0.00
ATOM	770	1HB	ASP	51	8.916	5.374	12.881	1.00	0.00
ATOM	771	2HB	ASP	51	8.337	4.159	11.748	1.00	0.00
ATOM	772	N	GLU	52	8.531	5.193	15.460	1.00	0.00
ATOM	773	CA	GLU	52	8.957	5.863	16.682	1.00	0.00
ATOM	779	C	GLU	52	8.660	5.018	17.922	1.00	0.00
ATOM	780	O	GLU	52	9.508	4.881	18.805	1.00	0.00
ATOM	774	CB	GLU	52	8.276	7.231	16.797	1.00	0.00
ATOM	775	CG	GLU	52	8.242	7.784	18.212	1.00	0.00
ATOM	776	CD	GLU	52	8.064	9.284	18.251	1.00	0.00
ATOM	777	OE1	GLU	52	6.923	9.749	18.072	1.00	0.00
ATOM	778	OE2	GLU	52	9.063	9.995	18.469	1.00	0.00
ATOM	781	H	GLU	52	7.833	5.605	14.905	1.00	0.00
ATOM	782	HA	GLU	52	10.025	6.011	16.619	1.00	0.00
ATOM	783	1HB	GLU	52	7.260	7.146	16.441	1.00	0.00
ATOM	784	2HB	GLU	52	8.808	7.936	16.173	1.00	0.00
ATOM	785	1HG	GLU	52	9.170	7.533	18.705	1.00	0.00
ATOM	786	2HG	GLU	52	7.421	7.327	18.743	1.00	0.00
ATOM	787	N	PHE	53	7.460	4.459	17.997	1.00	0.00
ATOM	788	CA	PHE	53	7.087	3.652	19.149	1.00	0.00
ATOM	796	C	PHE	53	7.815	2.317	19.155	1.00	0.00
ATOM	797	O	PHE	53	8.109	1.788	20.211	1.00	0.00
ATOM	789	CB	PHE	53	5.583	3.426	19.204	1.00	0.00
ATOM	790	CG	PHE	53	4.953	3.953	20.462	1.00	0.00
ATOM	791	CD1	PHE	53	5.093	5.285	20.816	1.00	0.00
ATOM	792	CD2	PHE	53	4.227	3.115	21.293	1.00	0.00
ATOM	793	CE1	PHE	53	4.521	5.772	21.975	1.00	0.00
ATOM	794	CE2	PHE	53	3.651	3.597	22.454	1.00	0.00
ATOM	795	CZ	PHE	53	3.801	4.927	22.794	1.00	0.00
ATOM	798	H	PHE	53	6.811	4.599	17.268	1.00	0.00
ATOM	799	HA	PHE	53	7.383	4.200	20.031	1.00	0.00
ATOM	800	1HB	PHE	53	5.381	2.367	19.148	1.00	0.00
ATOM	801	2HB	PHE	53	5.120	3.923	18.366	1.00	0.00
ATOM	802	HD1	PHE	53	5.655	5.947	20.174	1.00	0.00
ATOM	803	HD2	PHE	53	4.110	2.076	21.027	1.00	0.00
ATOM	804	HE1	PHE	53	4.638	6.814	22.238	1.00	0.00
ATOM	805	HE2	PHE	53	3.088	2.935	23.094	1.00	0.00
ATOM	806	HZ	PHE	53	3.353	5.306	23.702	1.00	0.00
ATOM	807	N	GLU	54	8.121	1.792	17.980	1.00	0.00
ATOM	808	CA	GLU	54	8.838	0.528	17.871	1.00	0.00
ATOM	814	C	GLU	54	10.240	0.704	18.448	1.00	0.00
ATOM	815	O	GLU	54	10.825	-0.219	19.013	1.00	0.00
ATOM	809	CB	GLU	54	8.887	0.080	16.400	1.00	0.00
ATOM	810	CG	GLU	54	9.769	-1.132	16.135	1.00	0.00



ATOM	811	CD	GLU	54	9.182	-2.058	15.086	1.00	0.00
ATOM	812	OE1	GLU	54	7.978	-1.935	14.772	1.00	0.00
ATOM	813	OE2	GLU	54	9.921	-2.918	14.563	1.00	0.00
ATOM	816	H	GLU	54	7.867	2.270	17.158	1.00	0.00
ATOM	817	HA	GLU	54	8.309	-0.211	18.454	1.00	0.00
ATOM	818	1HB	GLU	54	9.244	0.905	15.794	1.00	0.00
ATOM	819	2HB	GLU	54	7.884	-0.168	16.087	1.00	0.00
ATOM	820	1HG	GLU	54	9.889	-1.683	17.055	1.00	0.00
ATOM	821	2HG	GLU	54	10.734	-0.789	15.791	1.00	0.00
ATOM	822	N	THR	55	10.752	1.923	18.318	1.00	0.00
ATOM	823	CA	THR	55	12.067	2.269	18.833	1.00	0.00
ATOM	827	C	THR	55	11.996	2.693	20.314	1.00	0.00
ATOM	828	O	THR	55	13.007	2.700	21.021	1.00	0.00
ATOM	824	CB	THR	55	12.685	3.408	17.991	1.00	0.00
ATOM	825	OG1	THR	55	12.504	3.133	16.591	1.00	0.00
ATOM	826	CG2	THR	55	14.168	3.569	18.286	1.00	0.00
ATOM	829	H	THR	55	10.219	2.612	17.866	1.00	0.00
ATOM	830	HA	THR	55	12.702	1.399	18.747	1.00	0.00
ATOM	831	HB	THR	55	12.177	4.333	18.236	1.00	0.00
ATOM	832	HG1	THR	55	11.558	3.081	16.394	1.00	0.00
ATOM	833	1HG2	THR	55	14.363	3.290	19.310	1.00	0.00
ATOM	834	2HG2	THR	55	14.456	4.597	18.132	1.00	0.00
ATOM	835	3HG2	THR	55	14.737	2.932	17.624	1.00	0.00
ATOM	836	N	ARG	56	10.802	3.062	20.774	1.00	0.00
ATOM	837	CA	ARG	56	10.607	3.502	22.157	1.00	0.00
ATOM	845	C	ARG	56	10.074	2.378	23.053	1.00	0.00
ATOM	846	O	ARG	56	10.584	2.139	24.146	1.00	0.00
ATOM	838	CB	ARG	56	9.620	4.672	22.195	1.00	0.00
ATOM	839	CG	ARG	56	10.246	6.034	21.945	1.00	0.00
ATOM	840	CD	ARG	56	9.232	7.145	22.177	1.00	0.00
ATOM	841	NE	ARG	56	9.443	8.294	21.297	1.00	0.00
ATOM	842	CZ	ARG	56	9.859	9.488	21.725	1.00	0.00
ATOM	843	NH1	ARG	56	10.194	9.660	22.997	1.00	0.00
ATOM	844	NH2	ARG	56	9.947	10.504	20.879	1.00	0.00
ATOM	847	H	ARG	56	10.035	3.052	20.164	1.00	0.00
ATOM	848	HA	ARG	56	11.560	3.836	22.541	1.00	0.00
ATOM	849	1HB	ARG	56	9.144	4.693	23.165	1.00	0.00
ATOM	850	2HB	ARG	56	8.863	4.509	21.442	1.00	0.00
ATOM	851	1HG	ARG	56	10.595	6.081	20.926	1.00	0.00
ATOM	852	2HG	ARG	56	11.077	6.169	22.622	1.00	0.00
ATOM	853	1HD	ARG	56	9.308	7.475	23.200	1.00	0.00
ATOM	854	2HD	ARG	56	8.243	6.751	22.002	1.00	0.00
ATOM	855	HE	ARG	56	9.232	8.179	20.343	1.00	0.00
ATOM	856	1HH1	ARG	56	10.144	8.900	23.642	1.00	0.00
ATOM	857	2HH1	ARG	56	10.483	10.570	23.321	1.00	0.00
ATOM	858	1HH2	ARG	56	9.702	10.381	19.899	1.00	0.00
ATOM	859	2HH2	ARG	56	10.247	11.408	21.207	1.00	0.00
ATOM	860	N	PHE	57	9.031	1.716	22.586	1.00	0.00
ATOM	861	CA	PHE	57	8.387	0.635	23.314	1.00	0.00
ATOM	869	C	PHE	57	9.087	-0.692	23.063	1.00	0.00
ATOM	870	O	PHE	57	8.741	-1.421	22.136	1.00	0.00
ATOM	862	CB	PHE	57	6.917	0.533	22.888	1.00	0.00
ATOM	863	CG	PHE	57	5.945	0.324	24.018	1.00	0.00
ATOM	864	CD1	PHE	57	6.367	0.310	25.339	1.00	0.00
ATOM	865	CD2	PHE	57	4.598	0.144	23.749	1.00	0.00
ATOM	866	CE1	PHE	57	5.462	0.121	26.368	1.00	0.00
ATOM	867	CE2	PHE	57	3.690	-0.046	24.772	1.00	0.00
ATOM	868	CZ	PHE	57	4.120	-0.056	26.082	1.00	0.00
ATOM	871	H	PHE	57	8.671	1.965	21.709	1.00	0.00
ATOM	872	HA	PHE	57	8.433	0.867	24.367	1.00	0.00
ATOM	873	1HB	PHE	57	6.810	-0.296	22.202	1.00	0.00
ATOM	874	2HB	PHE	57	6.637	1.444	22.382	1.00	0.00
ATOM	875	HD1	PHE	57	7.415	0.450	25.562	1.00	0.00
ATOM	876	HD2	PHE	57	4.258	0.152	22.724	1.00	0.00
ATOM	877	HE1	PHE	57	5.803	0.112	27.393	1.00	0.00
ATOM	878	HE2	PHE	57	2.642	-0.184	24.546	1.00	0.00
ATOM	879	HZ	PHE	57	3.410	-0.203	26.882	1.00	0.00
ATOM	880	N	ARG	58	10.067	-1.002	23.897	1.00	0.00
ATOM	881	CA	ARG	58	10.815	-2.250	23.770	1.00	0.00
ATOM	889	C	ARG	58	9.925	-3.453	24.083	1.00	0.00
ATOM	890	O	ARG	58	10.195	-4.574	23.653	1.00	0.00
ATOM	882	CB	ARG	58	12.025	-2.236	24.701	1.00	0.00
ATOM	883	CG	ARG	58	13.292	-1.744	24.027	1.00	0.00



ATOM	884	CD	ARG	58	14.378	-1.430	25.042	1.00	0.00
ATOM	885	NE	ARG	58	15.690	-1.308	24.412	1.00	0.00
ATOM	886	CZ	ARG	58	16.819	-1.074	25.076	1.00	0.00
ATOM	887	NH1	ARG	58	16.809	-0.963	26.400	1.00	0.00
ATOM	888	NH2	ARG	58	17.962	-0.954	24.416	1.00	0.00
ATOM	891	H	ARG	58	10.294	-0.376	24.614	1.00	0.00
ATOM	892	HA	ARG	58	11.158	-2.328	22.749	1.00	0.00
ATOM	893	1HB	ARG	58	12.200	-3.240	25.062	1.00	0.00
ATOM	894	2HB	ARG	58	11.812	-1.591	25.541	1.00	0.00
ATOM	895	1HG	ARG	58	13.065	-0.849	23.466	1.00	0.00
ATOM	896	2HG	ARG	58	13.653	-2.510	23.356	1.00	0.00
ATOM	897	1HD	ARG	58	14.411	-2.224	25.773	1.00	0.00
ATOM	898	2HD	ARG	58	14.135	-0.499	25.533	1.00	0.00
ATOM	899	HE	ARG	58	15.729	-1.409	23.431	1.00	0.00
ATOM	900	1HH1	ARG	58	15.951	-1.055	26.911	1.00	0.00
ATOM	901	2HH1	ARG	58	17.665	-0.789	26.897	1.00	0.00
ATOM	902	1HH2	ARG	58	17.978	-1.034	23.411	1.00	0.00
ATOM	903	2HH2	ARG	58	18.819	-0.788	24.914	1.00	0.00
ATOM	904	N	ARG	59	8.852	-3.203	24.821	1.00	0.00
ATOM	905	CA	ARG	59	7.906	-4.248	25.180	1.00	0.00
ATOM	913	C	ARG	59	6.833	-4.370	24.104	1.00	0.00
ATOM	914	O	ARG	59	5.672	-4.045	24.334	1.00	0.00
ATOM	906	CB	ARG	59	7.258	-3.935	26.531	1.00	0.00
ATOM	907	CG	ARG	59	8.044	-4.462	27.720	1.00	0.00
ATOM	908	CD	ARG	59	7.174	-4.560	28.960	1.00	0.00
ATOM	909	NE	ARG	59	6.979	-3.260	29.604	1.00	0.00
ATOM	910	CZ	ARG	59	6.208	-3.068	30.675	1.00	0.00
ATOM	911	NH1	ARG	59	5.565	-4.089	31.226	1.00	0.00
ATOM	912	NH2	ARG	59	6.088	-1.853	31.195	1.00	0.00
ATOM	915	H	ARG	59	8.685	-2.288	25.117	1.00	0.00
ATOM	916	HA	ARG	59	8.444	-5.181	25.250	1.00	0.00
ATOM	917	1HB	ARG	59	6.273	-4.376	26.555	1.00	0.00
ATOM	918	2HB	ARG	59	7.167	-2.863	26.635	1.00	0.00
ATOM	919	1HG	ARG	59	8.868	-3.791	27.920	1.00	0.00
ATOM	920	2HG	ARG	59	8.425	-5.443	27.481	1.00	0.00
ATOM	921	1HD	ARG	59	7.645	-5.232	29.662	1.00	0.00
ATOM	922	2HD	ARG	59	6.210	-4.957	28.676	1.00	0.00
ATOM	923	HE	ARG	59	7.451	-2.486	29.216	1.00	0.00
ATOM	924	1HH1	ARG	59	5.657	-5.008	30.839	1.00	0.00
ATOM	925	2HH1	ARG	59	4.982	-3.947	32.038	1.00	0.00
ATOM	926	1HH2	ARG	59	6.576	-1.078	30.780	1.00	0.00
ATOM	927	2HH2	ARG	59	5.514	-1.701	32.014	1.00	0.00
ATOM	928	N	THR	60	7.241	-4.803	22.920	1.00	0.00
ATOM	929	CA	THR	60	6.321	-4.934	21.800	1.00	0.00
ATOM	933	C	THR	60	6.250	-6.370	21.282	1.00	0.00
ATOM	934	O	THR	60	5.353	-6.719	20.515	1.00	0.00
ATOM	930	CB	THR	60	6.752	-4.013	20.648	1.00	0.00
ATOM	931	OG1	THR	60	8.156	-3.734	20.758	1.00	0.00
ATOM	932	CG2	THR	60	5.966	-2.710	20.673	1.00	0.00
ATOM	935	H	THR	60	8.188	-5.012	22.786	1.00	0.00
ATOM	936	HA	THR	60	5.340	-4.627	22.129	1.00	0.00
ATOM	937	HB	THR	60	6.562	-4.515	19.711	1.00	0.00
ATOM	938	HG1	THR	60	8.282	-2.830	21.079	1.00	0.00
ATOM	939	1HG2	THR	60	6.348	-2.045	19.913	1.00	0.00
ATOM	940	2HG2	THR	60	6.068	-2.247	21.643	1.00	0.00
ATOM	941	3HG2	THR	60	4.923	-2.916	20.479	1.00	0.00
ATOM	942	N	PHE	61	7.206	-7.198	21.689	1.00	0.00
ATOM	943	CA	PHE	61	7.253	-8.588	21.241	1.00	0.00
ATOM	951	C	PHE	61	7.025	-9.553	22.403	1.00	0.00
ATOM	952	O	PHE	61	7.035	-10.768	22.224	1.00	0.00
ATOM	944	CB	PHE	61	8.600	-8.888	20.575	1.00	0.00
ATOM	945	CG	PHE	61	8.619	-8.622	19.095	1.00	0.00
ATOM	946	CD1	PHE	61	8.483	-7.332	18.603	1.00	0.00
ATOM	947	CD2	PHE	61	8.772	-9.663	18.195	1.00	0.00
ATOM	948	CE1	PHE	61	8.499	-7.088	17.244	1.00	0.00
ATOM	949	CE2	PHE	61	8.787	-9.425	16.833	1.00	0.00
ATOM	950	CZ	PHE	61	8.651	-8.136	16.358	1.00	0.00
ATOM	953	H	PHE	61	7.906	-6.863	22.286	1.00	0.00
ATOM	954	HA	PHE	61	6.465	-8.728	20.517	1.00	0.00
ATOM	955	1HB	PHE	61	8.845	-9.928	20.729	1.00	0.00
ATOM	956	2HB	PHE	61	9.362	-8.273	21.031	1.00	0.00
ATOM	957	HD1	PHE	61	8.880	-10.672	18.565	1.00	0.00
ATOM	958	HD2	PHE	61	8.366	-6.512	19.297	1.00	0.00



ATOM	959	HE1	PHE	61	8.908	-10.246	16.142	1.00	0.00
ATOM	960	HE2	PHE	61	8.392	-6.077	16.874	1.00	0.00
ATOM	961	HZ	PHE	61	8.662	-7.946	15.295	1.00	0.00
ATOM	962	N	SER	62	6.829	-9.005	23.590	1.00	0.00
ATOM	963	CA	SER	62	6.607	-9.813	24.781	1.00	0.00
ATOM	966	C	SER	62	5.240	-10.478	24.744	1.00	0.00
ATOM	967	O	SER	62	5.113	-11.689	24.931	1.00	0.00
ATOM	964	CB	SER	62	6.721	-8.916	26.014	1.00	0.00
ATOM	965	OG	SER	62	6.611	-7.546	25.644	1.00	0.00
ATOM	968	H	SER	62	6.831	-8.029	23.676	1.00	0.00
ATOM	969	HA	SER	62	7.368	-10.576	24.820	1.00	0.00
ATOM	970	1HB	SER	62	7.679	-9.073	26.488	1.00	0.00
ATOM	971	2HB	SER	62	5.929	-9.156	26.708	1.00	0.00
ATOM	972	HG	SER	62	5.674	-7.284	25.651	1.00	0.00
ATOM	973	N	ASP	63	4.229	-9.660	24.511	1.00	0.00
ATOM	974	CA	ASP	63	2.839	-10.091	24.450	1.00	0.00
ATOM	979	C	ASP	63	2.630	-11.170	23.409	1.00	0.00
ATOM	980	O	ASP	63	1.807	-12.072	23.586	1.00	0.00
ATOM	975	CB	ASP	63	1.953	-8.884	24.141	1.00	0.00
ATOM	976	CG	ASP	63	2.331	-7.656	24.960	1.00	0.00
ATOM	977	OD1	ASP	63	3.479	-7.169	24.807	1.00	0.00
ATOM	978	OD2	ASP	63	1.490	-7.186	25.752	1.00	0.00
ATOM	981	H	ASP	63	4.420	-8.700	24.383	1.00	0.00
ATOM	982	HA	ASP	63	2.573	-10.494	25.412	1.00	0.00
ATOM	983	1HB	ASP	63	0.929	-9.139	24.352	1.00	0.00
ATOM	984	2HB	ASP	63	2.048	-8.636	23.094	1.00	0.00
ATOM	985	N	LEU	64	3.390	-11.075	22.337	1.00	0.00
ATOM	986	CA	LEU	64	3.329	-12.040	21.247	1.00	0.00
ATOM	991	C	LEU	64	3.597	-13.440	21.791	1.00	0.00
ATOM	992	O	LEU	64	2.907	-14.406	21.455	1.00	0.00
ATOM	987	CB	LEU	64	4.380	-11.699	20.183	1.00	0.00
ATOM	988	CG	LEU	64	4.009	-10.604	19.175	1.00	0.00
ATOM	989	CD1	LEU	64	3.489	-9.355	19.874	1.00	0.00
ATOM	990	CD2	LEU	64	5.217	-10.264	18.318	1.00	0.00
ATOM	993	H	LEU	64	4.021	-10.330	22.279	1.00	0.00
ATOM	994	HA	LEU	64	2.344	-12.005	20.808	1.00	0.00
ATOM	995	1HB	LEU	64	4.596	-12.599	19.627	1.00	0.00
ATOM	996	2HB	LEU	64	5.282	-11.390	20.691	1.00	0.00
ATOM	997	HG	LEU	64	3.230	-10.970	18.524	1.00	0.00
ATOM	998	1HD1	LEU	64	4.319	-8.718	20.138	1.00	0.00
ATOM	999	2HD1	LEU	64	2.955	-9.641	20.768	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.822	-8.823	19.211	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.720	-11.175	18.030	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.897	-9.642	18.881	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.896	-9.736	17.432	1.00	0.00
ATOM	1004	N	ALA	65	4.594	-13.525	22.661	1.00	0.00
ATOM	1005	CA	ALA	65	4.968	-14.784	23.281	1.00	0.00
ATOM	1007	C	ALA	65	4.056	-15.094	24.455	1.00	0.00
ATOM	1008	O	ALA	65	3.622	-16.227	24.621	1.00	0.00
ATOM	1006	CB	ALA	65	6.424	-14.749	23.728	1.00	0.00
ATOM	1009	H	ALA	65	5.082	-12.707	22.906	1.00	0.00
ATOM	1010	HA	ALA	65	4.860	-15.563	22.543	1.00	0.00
ATOM	1011	1HB	ALA	65	7.026	-15.324	23.040	1.00	0.00
ATOM	1012	2HB	ALA	65	6.509	-15.170	24.720	1.00	0.00
ATOM	1013	3HB	ALA	65	6.772	-13.726	23.741	1.00	0.00
ATOM	1014	N	ALA	66	3.773	-14.073	25.256	1.00	0.00
ATOM	1015	CA	ALA	66	2.906	-14.208	26.425	1.00	0.00
ATOM	1017	C	ALA	66	1.612	-14.945	26.089	1.00	0.00
ATOM	1018	O	ALA	66	1.181	-15.837	26.819	1.00	0.00
ATOM	1016	CB	ALA	66	2.577	-12.834	26.970	1.00	0.00
ATOM	1019	H	ALA	66	4.163	-13.188	25.055	1.00	0.00
ATOM	1020	HA	ALA	66	3.438	-14.751	27.196	1.00	0.00
ATOM	1021	1HB	ALA	66	2.997	-12.077	26.321	1.00	0.00
ATOM	1022	2HB	ALA	66	2.994	-12.728	27.961	1.00	0.00
ATOM	1023	3HB	ALA	66	1.505	-12.713	27.017	1.00	0.00
ATOM	1024	N	GLN	67	0.989	-14.553	24.988	1.00	0.00
ATOM	1025	CA	GLN	67	-0.270	-15.161	24.575	1.00	0.00
ATOM	1031	C	GLN	67	-0.080	-16.497	23.855	1.00	0.00
ATOM	1032	O	GLN	67	-0.786	-17.464	24.141	1.00	0.00
ATOM	1026	CB	GLN	67	-1.045	-14.209	23.661	1.00	0.00
ATOM	1027	CG	GLN	67	-1.274	-12.832	24.263	1.00	0.00
ATOM	1028	CD	GLN	67	-1.955	-11.882	23.298	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.943	-12.234	22.658	1.00	0.00



ATOM	1030	NE2	GLN	67	-1.434	-10.670	23.191	1.00	0.00
ATOM	1033	H	GLN	67	1.377	-13.822	24.450	1.00	0.00
ATOM	1034	HA	GLN	67	-0.855	-15.332	25.465	1.00	0.00
ATOM	1035	1HB	GLN	67	-2.009	-14.646	23.442	1.00	0.00
ATOM	1036	2HB	GLN	67	-0.498	-14.088	22.739	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.318	-12.413	24.542	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.892	-12.935	25.142	1.00	0.00
ATOM	1039	1HE2	GLN	67	-0.646	-10.454	23.732	1.00	0.00
ATOM	1040	2HE2	GLN	67	-1.859	-10.037	22.575	1.00	0.00
ATOM	1041	N	LEU	68	0.831	-16.546	22.889	1.00	0.00
ATOM	1042	CA	LEU	68	1.034	-17.765	22.107	1.00	0.00
ATOM	1047	C	LEU	68	2.082	-18.708	22.700	1.00	0.00
ATOM	1048	O	LEU	68	2.623	-19.558	21.989	1.00	0.00
ATOM	1043	CB	LEU	68	1.411	-17.401	20.666	1.00	0.00
ATOM	1044	CG	LEU	68	0.258	-16.907	19.777	1.00	0.00
ATOM	1045	CD1	LEU	68	-1.079	-17.474	20.238	1.00	0.00
ATOM	1046	CD2	LEU	68	0.210	-15.389	19.756	1.00	0.00
ATOM	1049	H	LEU	68	1.349	-15.736	22.666	1.00	0.00
ATOM	1050	HA	LEU	68	0.089	-18.289	22.084	1.00	0.00
ATOM	1051	1HB	LEU	68	1.843	-18.274	20.200	1.00	0.00
ATOM	1052	2HB	LEU	68	2.164	-16.626	20.701	1.00	0.00
ATOM	1053	HG	LEU	68	0.428	-17.246	18.765	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.911	-18.203	21.017	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.577	-17.945	19.405	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.696	-16.673	20.621	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.438	-15.060	18.957	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.204	-14.998	19.598	1.00	0.00
ATOM	1059	3HD2	LEU	68	-0.173	-15.028	20.700	1.00	0.00
ATOM	1060	N	HIS	69	2.369	-18.578	23.988	1.00	0.00
ATOM	1061	CA	HIS	69	3.357	-19.446	24.625	1.00	0.00
ATOM	1068	C	HIS	69	2.759	-20.798	24.971	1.00	0.00
ATOM	1069	O	HIS	69	3.426	-21.826	24.867	1.00	0.00
ATOM	1062	CB	HIS	69	3.919	-18.814	25.901	1.00	0.00
ATOM	1063	CG	HIS	69	5.401	-18.964	26.031	1.00	0.00
ATOM	1064	ND1	HIS	69	6.008	-20.100	26.522	1.00	0.00
ATOM	1065	CD2	HIS	69	6.405	-18.116	25.707	1.00	0.00
ATOM	1066	CE1	HIS	69	7.319	-19.944	26.494	1.00	0.00
ATOM	1067	NE2	HIS	69	7.588	-18.748	26.001	1.00	0.00
ATOM	1070	H	HIS	69	1.919	-17.882	24.516	1.00	0.00
ATOM	1071	HA	HIS	69	4.163	-19.596	23.927	1.00	0.00
ATOM	1072	1HB	HIS	69	3.458	-19.282	26.760	1.00	0.00
ATOM	1073	2HB	HIS	69	3.688	-17.759	25.904	1.00	0.00
ATOM	1074	HD1	HIS	69	5.543	-20.912	26.846	1.00	0.00
ATOM	1075	HD2	HIS	69	6.294	-17.122	25.296	1.00	0.00
ATOM	1076	HE1	HIS	69	8.048	-20.671	26.816	1.00	0.00
ATOM	1077	HE2	HIS	69	8.472	-18.471	25.651	1.00	0.00
ATOM	1078	N	VAL	70	1.513	-20.786	25.406	1.00	0.00
ATOM	1079	CA	VAL	70	0.837	-22.013	25.795	1.00	0.00
ATOM	1083	C	VAL	70	0.094	-22.651	24.617	1.00	0.00
ATOM	1084	O	VAL	70	0.416	-23.767	24.214	1.00	0.00
ATOM	1080	CB	VAL	70	-0.120	-21.775	26.996	1.00	0.00
ATOM	1081	CG1	VAL	70	-1.004	-20.554	26.773	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.961	-23.012	27.283	1.00	0.00
ATOM	1085	H	VAL	70	1.045	-19.931	25.483	1.00	0.00
ATOM	1086	HA	VAL	70	1.600	-22.707	26.120	1.00	0.00
ATOM	1087	HB	VAL	70	0.489	-21.581	27.866	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.403	-19.740	26.394	1.00	0.00
ATOM	1089	2HG1	VAL	70	-1.459	-20.260	27.707	1.00	0.00
ATOM	1090	3HG1	VAL	70	-1.777	-20.794	26.057	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.228	-23.490	26.353	1.00	0.00
ATOM	1092	2HG2	VAL	70	-1.860	-22.723	27.809	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.394	-23.699	27.893	1.00	0.00
ATOM	1094	N	THR	71	-0.891	-21.947	24.066	1.00	0.00
ATOM	1095	CA	THR	71	-1.669	-22.458	22.943	1.00	0.00
ATOM	1099	C	THR	71	-2.335	-21.315	22.187	1.00	0.00
ATOM	1100	O	THR	71	-2.622	-20.268	22.769	1.00	0.00
ATOM	1096	CB	THR	71	-2.768	-23.435	23.419	1.00	0.00
ATOM	1097	OG1	THR	71	-3.056	-23.214	24.805	1.00	0.00
ATOM	1098	CG2	THR	71	-2.353	-24.883	23.202	1.00	0.00
ATOM	1101	H	THR	71	-1.104	-21.059	24.422	1.00	0.00
ATOM	1102	HA	THR	71	-1.002	-22.987	22.279	1.00	0.00
ATOM	1103	HB	THR	71	-3.664	-23.247	22.843	1.00	0.00
ATOM	1104	HG1	THR	71	-3.667	-22.477	24.887	1.00	0.00



ATOM	1105	1HG2	THR	71	-3.068	-25.537	23.679	1.00	0.00
ATOM	1106	2HG2	THR	71	-1.376	-25.045	23.633	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.321	-25.094	22.144	1.00	0.00
ATOM	1108	N	PRO	72	-2.599	-21.500	20.885	1.00	0.00
ATOM	1109	CA	PRO	72	-3.247	-20.489	20.058	1.00	0.00
ATOM	1113	C	PRO	72	-4.760	-20.477	20.271	1.00	0.00
ATOM	1114	O	PRO	72	-5.294	-21.284	21.038	1.00	0.00
ATOM	1110	CB	PRO	72	-2.910	-20.915	18.619	1.00	0.00
ATOM	1111	CG	PRO	72	-2.082	-22.160	18.730	1.00	0.00
ATOM	1112	CD	PRO	72	-2.305	-22.707	20.111	1.00	0.00
ATOM	1115	HA	PRO	72	-2.847	-19.503	20.250	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.361	-20.123	18.131	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.826	-21.103	18.078	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.039	-21.916	18.590	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.401	-22.878	17.990	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.413	-23.193	20.477	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.143	-23.389	20.120	1.00	0.00
ATOM	1122	N	GLY	73	-5.450	-19.567	19.594	1.00	0.00
ATOM	1123	CA	GLY	73	-6.894	-19.480	19.723	1.00	0.00
ATOM	1124	C	GLY	73	-7.328	-18.636	20.908	1.00	0.00
ATOM	1125	O	GLY	73	-8.062	-17.659	20.747	1.00	0.00
ATOM	1126	H	GLY	73	-4.977	-18.952	18.996	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.294	-20.476	19.841	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.300	-19.046	18.821	1.00	0.00
ATOM	1129	N	SER	74	-6.869	-18.999	22.100	1.00	0.00
ATOM	1130	CA	SER	74	-7.212	-18.274	23.320	1.00	0.00
ATOM	1133	C	SER	74	-6.428	-16.965	23.437	1.00	0.00
ATOM	1134	O	SER	74	-6.065	-16.536	24.533	1.00	0.00
ATOM	1131	CB	SER	74	-6.944	-19.161	24.537	1.00	0.00
ATOM	1132	OG	SER	74	-5.866	-20.049	24.288	1.00	0.00
ATOM	1135	H	SER	74	-6.280	-19.783	22.164	1.00	0.00
ATOM	1136	HA	SER	74	-8.267	-18.038	23.283	1.00	0.00
ATOM	1137	1HB	SER	74	-7.828	-19.741	24.758	1.00	0.00
ATOM	1138	2HB	SER	74	-6.697	-18.541	25.385	1.00	0.00
ATOM	1139	HG	SER	74	-6.213	-20.916	24.024	1.00	0.00
ATOM	1140	N	ALA	75	-6.179	-16.330	22.305	1.00	0.00
ATOM	1141	CA	ALA	75	-5.453	-15.075	22.277	1.00	0.00
ATOM	1143	C	ALA	75	-6.416	-13.898	22.274	1.00	0.00
ATOM	1144	O	ALA	75	-6.061	-12.797	22.688	1.00	0.00
ATOM	1142	CB	ALA	75	-4.541	-15.023	21.060	1.00	0.00
ATOM	1145	H	ALA	75	-6.501	-16.716	21.462	1.00	0.00
ATOM	1146	HA	ALA	75	-4.839	-15.024	23.158	1.00	0.00
ATOM	1147	1HB	ALA	75	-5.133	-15.118	20.163	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.829	-15.834	21.109	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.014	-14.082	21.046	1.00	0.00
ATOM	1150	N	GLN	76	-7.635	-14.138	21.796	1.00	0.00
ATOM	1151	CA	GLN	76	-8.648	-13.087	21.718	1.00	0.00
ATOM	1157	C	GLN	76	-8.940	-12.480	23.075	1.00	0.00
ATOM	1158	O	GLN	76	-8.976	-11.266	23.203	1.00	0.00
ATOM	1152	CB	GLN	76	-9.939	-13.597	21.069	1.00	0.00
ATOM	1153	CG	GLN	76	-10.379	-14.964	21.549	1.00	0.00
ATOM	1154	CD	GLN	76	-11.707	-15.395	20.959	1.00	0.00
ATOM	1155	OE1	GLN	76	-11.942	-16.582	20.744	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.592	-14.441	20.718	1.00	0.00
ATOM	1159	H	GLN	76	-7.852	-15.037	21.473	1.00	0.00
ATOM	1160	HA	GLN	76	-8.241	-12.308	21.090	1.00	0.00
ATOM	1161	1HB	GLN	76	-9.794	-13.646	20.000	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.733	-12.897	21.280	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.470	-14.932	22.613	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.628	-15.689	21.274	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.350	-13.510	20.935	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.453	-14.696	20.316	1.00	0.00
ATOM	1167	N	GLN	77	-9.140	-13.321	24.083	1.00	0.00
ATOM	1168	CA	GLN	77	-9.431	-12.836	25.429	1.00	0.00
ATOM	1174	C	GLN	77	-8.314	-11.930	25.938	1.00	0.00
ATOM	1175	O	GLN	77	-8.573	-10.864	26.493	1.00	0.00
ATOM	1169	CB	GLN	77	-9.629	-14.011	26.387	1.00	0.00
ATOM	1170	CG	GLN	77	-11.081	-14.424	26.553	1.00	0.00
ATOM	1171	CD	GLN	77	-11.349	-15.085	27.890	1.00	0.00
ATOM	1172	OE1	GLN	77	-10.978	-14.562	28.938	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.992	-16.241	27.862	1.00	0.00
ATOM	1176	H	GLN	77	-9.094	-14.287	23.918	1.00	0.00
ATOM	1177	HA	GLN	77	-10.342	-12.259	25.379	1.00	0.00



ATOM	1178	1HB	GLN	77	-9.241	-13.740	27.358	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.077	-14.861	26.014	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.336	-15.120	25.768	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.703	-13.546	26.472	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.259	-16.605	26.986	1.00	0.00
ATOM	1183	2HE2	GLN	77	-12.180	-16.690	28.719	1.00	0.00
ATOM	1184	N	ARG	78	-7.078	-12.360	25.735	1.00	0.00
ATOM	1185	CA	ARG	78	-5.916	-11.595	26.161	1.00	0.00
ATOM	1193	C	ARG	78	-5.830	-10.280	25.395	1.00	0.00
ATOM	1194	O	ARG	78	-5.520	-9.235	25.969	1.00	0.00
ATOM	1186	CB	ARG	78	-4.643	-12.412	25.941	1.00	0.00
ATOM	1187	CG	ARG	78	-4.523	-13.620	26.855	1.00	0.00
ATOM	1188	CD	ARG	78	-3.816	-14.769	26.156	1.00	0.00
ATOM	1189	NE	ARG	78	-3.129	-15.651	27.095	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.200	-16.978	27.057	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.942	-17.585	26.133	1.00	0.00
ATOM	1192	NH2	ARG	78	-2.531	-17.691	27.950	1.00	0.00
ATOM	1195	H	ARG	78	-6.941	-13.210	25.280	1.00	0.00
ATOM	1196	HA	ARG	78	-6.026	-11.379	27.214	1.00	0.00
ATOM	1197	1HB	ARG	78	-3.789	-11.774	26.112	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.624	-12.759	24.919	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.513	-13.941	27.146	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.957	-13.342	27.732	1.00	0.00
ATOM	1201	1HD	ARG	78	-3.091	-14.361	25.465	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.547	-15.344	25.608	1.00	0.00
ATOM	1203	HE	ARG	78	-2.576	-15.228	27.796	1.00	0.00
ATOM	1204	1HH1	ARG	78	-4.455	-17.042	25.462	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.987	-18.584	26.097	1.00	0.00
ATOM	1206	1HH2	ARG	78	-1.972	-17.217	28.657	1.00	0.00
ATOM	1207	2HH2	ARG	78	-2.572	-18.689	27.939	1.00	0.00
ATOM	1208	N	PHE	79	-6.118	-10.343	24.101	1.00	0.00
ATOM	1209	CA	PHE	79	-6.086	-9.164	23.253	1.00	0.00
ATOM	1217	C	PHE	79	-7.192	-8.195	23.647	1.00	0.00
ATOM	1218	O	PHE	79	-6.943	-7.005	23.809	1.00	0.00
ATOM	1210	CB	PHE	79	-6.224	-9.549	21.779	1.00	0.00
ATOM	1211	CG	PHE	79	-5.692	-8.506	20.839	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.331	-8.266	20.747	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.556	-7.760	20.051	1.00	0.00
ATOM	1214	CE1	PHE	79	-3.840	-7.301	19.890	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.070	-6.794	19.191	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.711	-6.565	19.110	1.00	0.00
ATOM	1219	H	PHE	79	-6.364	-11.207	23.704	1.00	0.00
ATOM	1220	HA	PHE	79	-5.132	-8.678	23.399	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.269	-9.703	21.552	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.682	-10.466	21.600	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.650	-8.843	21.355	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.619	-7.939	20.114	1.00	0.00
ATOM	1225	HE1	PHE	79	-2.776	-7.124	19.828	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.754	-6.219	18.582	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.329	-5.809	18.440	1.00	0.00
ATOM	1228	N	THR	80	-8.413	-8.708	23.805	1.00	0.00
ATOM	1229	CA	THR	80	-9.545	-7.868	24.181	1.00	0.00
ATOM	1233	C	THR	80	-9.302	-7.169	25.515	1.00	0.00
ATOM	1234	O	THR	80	-9.811	-6.071	25.744	1.00	0.00
ATOM	1230	CB	THR	80	-10.861	-8.667	24.256	1.00	0.00
ATOM	1231	OG1	THR	80	-10.644	-9.944	24.866	1.00	0.00
ATOM	1232	CG2	THR	80	-11.447	-8.862	22.868	1.00	0.00
ATOM	1235	H	THR	80	-8.559	-9.677	23.655	1.00	0.00
ATOM	1236	HA	THR	80	-9.657	-7.107	23.417	1.00	0.00
ATOM	1237	HB	THR	80	-11.569	-8.110	24.850	1.00	0.00
ATOM	1238	HG1	THR	80	-10.092	-9.841	25.649	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.703	-7.902	22.446	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.334	-9.473	22.936	1.00	0.00
ATOM	1241	3HG2	THR	80	-10.719	-9.351	22.236	1.00	0.00
ATOM	1242	N	GLN	81	-8.507	-7.792	26.384	1.00	0.00
ATOM	1243	CA	GLN	81	-8.199	-7.198	27.676	1.00	0.00
ATOM	1249	C	GLN	81	-7.340	-5.962	27.495	1.00	0.00
ATOM	1250	O	GLN	81	-7.734	-4.861	27.873	1.00	0.00
ATOM	1244	CB	GLN	81	-7.482	-8.193	28.579	1.00	0.00
ATOM	1245	CG	GLN	81	-8.418	-9.203	29.198	1.00	0.00
ATOM	1246	CD	GLN	81	-9.621	-8.566	29.876	1.00	0.00
ATOM	1247	OE1	GLN	81	-10.736	-9.087	29.799	1.00	0.00
ATOM	1248	NE2	GLN	81	-9.413	-7.437	30.543	1.00	0.00



ATOM	1251	H	GLN	81	-8.110	-8.660	26.145	1.00	0.00
ATOM	1252	HA	GLN	81	-9.129	-6.917	28.139	1.00	0.00
ATOM	1253	1HB	GLN	81	-6.990	-7.654	29.373	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.738	-8.721	27.999	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.875	-9.786	29.926	1.00	0.00
ATOM	1256	2HG	GLN	81	-8.773	-9.845	28.410	1.00	0.00
ATOM	1257	1HE2	GLN	81	-8.492	-7.063	30.568	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.177	-7.013	30.977	1.00	0.00
ATOM	1259	N	VAL	82	-6.165	-6.157	26.906	1.00	0.00
ATOM	1260	CA	VAL	82	-5.232	-5.057	26.669	1.00	0.00
ATOM	1264	C	VAL	82	-5.894	-3.913	25.889	1.00	0.00
ATOM	1265	O	VAL	82	-5.618	-2.744	26.149	1.00	0.00
ATOM	1261	CB	VAL	82	-3.946	-5.529	25.940	1.00	0.00
ATOM	1262	CG1	VAL	82	-4.236	-5.976	24.517	1.00	0.00
ATOM	1263	CG2	VAL	82	-2.893	-4.431	25.949	1.00	0.00
ATOM	1266	H	VAL	82	-5.921	-7.068	26.629	1.00	0.00
ATOM	1267	HA	VAL	82	-4.936	-4.672	27.641	1.00	0.00
ATOM	1268	HB	VAL	82	-3.549	-6.376	26.477	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.502	-7.023	24.515	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.358	-5.827	23.904	1.00	0.00
ATOM	1271	3HG1	VAL	82	-5.055	-5.396	24.119	1.00	0.00
ATOM	1272	1HG2	VAL	82	-2.464	-4.352	26.938	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.352	-3.490	25.682	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.117	-4.669	25.238	1.00	0.00
ATOM	1275	N	SER	83	-6.783	-4.244	24.952	1.00	0.00
ATOM	1276	CA	SER	83	-7.470	-3.219	24.175	1.00	0.00
ATOM	1279	C	SER	83	-8.440	-2.438	25.060	1.00	0.00
ATOM	1280	O	SER	83	-8.529	-1.213	24.969	1.00	0.00
ATOM	1277	CB	SER	83	-8.216	-3.836	22.986	1.00	0.00
ATOM	1278	OG	SER	83	-8.782	-5.084	23.326	1.00	0.00
ATOM	1281	H	SER	83	-6.983	-5.193	24.786	1.00	0.00
ATOM	1282	HA	SER	83	-6.724	-2.534	23.801	1.00	0.00
ATOM	1283	1HB	SER	83	-7.527	-3.978	22.166	1.00	0.00
ATOM	1284	2HB	SER	83	-9.010	-3.175	22.677	1.00	0.00
ATOM	1285	HG	SER	83	-9.423	-4.966	24.035	1.00	0.00
ATOM	1286	N	ASP	84	-9.157	-3.151	25.926	1.00	0.00
ATOM	1287	CA	ASP	84	-10.110	-2.519	26.831	1.00	0.00
ATOM	1292	C	ASP	84	-9.376	-1.707	27.888	1.00	0.00
ATOM	1293	O	ASP	84	-9.804	-0.616	28.259	1.00	0.00
ATOM	1288	CB	ASP	84	-11.002	-3.571	27.496	1.00	0.00
ATOM	1289	CG	ASP	84	-12.484	-3.271	27.339	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.961	-3.169	26.187	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.179	-3.147	28.363	1.00	0.00
ATOM	1294	H	ASP	84	-9.036	-4.126	25.964	1.00	0.00
ATOM	1295	HA	ASP	84	-10.727	-1.852	26.248	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.771	-3.613	28.551	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.802	-4.533	27.050	1.00	0.00
ATOM	1298	N	GLU	85	-8.257	-2.240	28.357	1.00	0.00
ATOM	1299	CA	GLU	85	-7.449	-1.568	29.361	1.00	0.00
ATOM	1305	C	GLU	85	-6.776	-0.328	28.772	1.00	0.00
ATOM	1306	O	GLU	85	-6.474	0.624	29.489	1.00	0.00
ATOM	1300	CB	GLU	85	-6.400	-2.528	29.927	1.00	0.00
ATOM	1301	CG	GLU	85	-6.955	-3.491	30.968	1.00	0.00
ATOM	1302	CD	GLU	85	-6.402	-4.897	30.834	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.165	-5.046	30.736	1.00	0.00
ATOM	1304	OE2	GLU	85	-7.202	-5.857	30.843	1.00	0.00
ATOM	1307	H	GLU	85	-7.963	-3.116	28.012	1.00	0.00
ATOM	1308	HA	GLU	85	-8.108	-1.258	30.158	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.613	-1.950	30.385	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.985	-3.107	29.116	1.00	0.00
ATOM	1311	1HG	GLU	85	-8.030	-3.531	30.864	1.00	0.00
ATOM	1312	2HG	GLU	85	-6.706	-3.118	31.950	1.00	0.00
ATOM	1313	N	LEU	86	-6.556	-0.342	27.463	1.00	0.00
ATOM	1314	CA	LEU	86	-5.933	0.784	26.777	1.00	0.00
ATOM	1319	C	LEU	86	-6.972	1.859	26.467	1.00	0.00
ATOM	1320	O	LEU	86	-6.674	3.051	26.469	1.00	0.00
ATOM	1315	CB	LEU	86	-5.265	0.319	25.478	1.00	0.00
ATOM	1316	CG	LEU	86	-3.748	0.521	25.416	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.020	-0.784	25.683	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.333	1.085	24.066	1.00	0.00
ATOM	1321	H	LEU	86	-6.824	-1.130	26.943	1.00	0.00
ATOM	1322	HA	LEU	86	-5.181	1.200	27.431	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.712	0.859	24.658	1.00	0.00



ATOM	1324	2HB	LEU	86	-5.472	-0.733	25.350	1.00	0.00
ATOM	1325	HG	LEU	86	-3.455	1.228	26.178	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.700	-0.814	26.715	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.156	-0.853	25.038	1.00	0.00
ATOM	1328	3HD1	LEU	86	-3.681	-1.615	25.487	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.771	0.493	23.276	1.00	0.00
ATOM	1330	2HD2	LEU	86	-2.255	1.056	23.982	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.673	2.107	23.982	1.00	0.00
ATOM	1332	N	PHE	87	-8.198	1.423	26.201	1.00	0.00
ATOM	1333	CA	PHE	87	-9.291	2.337	25.887	1.00	0.00
ATOM	1341	C	PHE	87	-9.953	2.847	27.168	1.00	0.00
ATOM	1342	O	PHE	87	-10.779	3.763	27.127	1.00	0.00
ATOM	1334	CB	PHE	87	-10.325	1.630	24.994	1.00	0.00
ATOM	1335	CG	PHE	87	-11.464	2.509	24.557	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.274	3.485	23.595	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.724	2.359	25.114	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.318	4.299	23.197	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.772	3.168	24.720	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.568	4.141	23.761	1.00	0.00
ATOM	1343	H	PHE	87	-8.373	0.456	26.212	1.00	0.00
ATOM	1344	HA	PHE	87	-8.877	3.177	25.350	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.741	0.792	25.534	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.833	1.266	24.106	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.296	3.610	23.153	1.00	0.00
ATOM	1348	HD2	PHE	87	-12.885	1.599	25.864	1.00	0.00
ATOM	1349	HE1	PHE	87	-12.155	5.058	22.446	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.749	3.042	25.164	1.00	0.00
ATOM	1351	H2	PHE	87	-14.385	4.775	23.452	1.00	0.00
ATOM	1352	N	GLN	88	-9.583	2.234	28.296	1.00	0.00
ATOM	1353	CA	GLN	88	-10.125	2.581	29.614	1.00	0.00
ATOM	1359	C	GLN	88	-10.267	4.088	29.809	1.00	0.00
ATOM	1360	O	GLN	88	-11.320	4.565	30.229	1.00	0.00
ATOM	1354	CB	GLN	88	-9.245	1.999	30.720	1.00	0.00
ATOM	1355	CG	GLN	88	-9.927	0.900	31.518	1.00	0.00
ATOM	1356	CD	GLN	88	-9.001	0.258	32.532	1.00	0.00
ATOM	1357	OE1	GLN	88	-8.447	0.934	33.400	1.00	0.00
ATOM	1358	NE2	GLN	88	-8.832	-1.051	32.433	1.00	0.00
ATOM	1361	H	GLN	88	-8.928	1.507	28.237	1.00	0.00
ATOM	1362	HA	GLN	88	-11.106	2.135	29.687	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.971	2.791	31.401	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.349	1.590	30.275	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.272	0.138	30.835	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.770	1.324	32.042	1.00	0.00
ATOM	1367	1HE2	GLN	88	-9.308	-1.527	31.718	1.00	0.00
ATOM	1368	2HE2	GLN	88	-8.235	-1.493	33.073	1.00	0.00
ATOM	1369	N	GLY	89	-9.218	4.838	29.499	1.00	0.00
ATOM	1370	CA	GLY	89	-9.287	6.274	29.654	1.00	0.00
ATOM	1371	C	GLY	89	-8.138	7.000	28.992	1.00	0.00
ATOM	1372	O	GLY	89	-7.453	7.794	29.635	1.00	0.00
ATOM	1373	H	GLY	89	-8.399	4.415	29.166	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.285	6.509	30.707	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.212	6.623	29.221	1.00	0.00
ATOM	1376	N	GLY	90	-7.924	6.754	27.705	1.00	0.00
ATOM	1377	CA	GLY	90	-6.848	7.438	27.021	1.00	0.00
ATOM	1378	C	GLY	90	-6.475	6.845	25.672	1.00	0.00
ATOM	1379	O	GLY	90	-5.309	6.517	25.456	1.00	0.00
ATOM	1380	H	GLY	90	-8.501	6.124	27.221	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.974	7.419	27.656	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.137	8.467	26.871	1.00	0.00
ATOM	1383	N	PRO	91	-7.419	6.732	24.715	1.00	0.00
ATOM	1384	CA	PRO	91	-7.115	6.212	23.381	1.00	0.00
ATOM	1388	C	PRO	91	-6.471	7.280	22.501	1.00	0.00
ATOM	1389	O	PRO	91	-6.799	7.421	21.327	1.00	0.00
ATOM	1385	CB	PRO	91	-8.476	5.824	22.808	1.00	0.00
ATOM	1386	CG	PRO	91	-9.510	6.506	23.639	1.00	0.00
ATOM	1387	CD	PRO	91	-8.829	7.129	24.837	1.00	0.00
ATOM	1390	HA	PRO	91	-6.473	5.343	23.428	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.587	4.754	22.842	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.536	6.166	21.786	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.255	5.790	23.953	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.976	7.271	23.046	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.258	6.743	25.750	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.926	8.204	24.804	1.00	0.00



ATOM	1397	N	ASN	92	-5.571	8.044	23.099	1.00	0.00
ATOM	1398	CA	ASN	92	-4.886	9.130	22.410	1.00	0.00
ATOM	1403	C	ASN	92	-3.893	8.616	21.378	1.00	0.00
ATOM	1404	O	ASN	92	-3.513	7.446	21.405	1.00	0.00
ATOM	1399	CB	ASN	92	-4.183	10.024	23.427	1.00	0.00
ATOM	1400	CG	ASN	92	-4.538	11.485	23.246	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.405	12.035	22.153	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.983	12.127	24.314	1.00	0.00
ATOM	1405	H	ASN	92	-5.373	7.878	24.043	1.00	0.00
ATOM	1406	HA	ASN	92	-5.637	9.715	21.900	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.114	9.915	23.315	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.470	9.723	24.423	1.00	0.00
ATOM	1409	1HD2	ASN	92	-5.058	11.631	25.155	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.219	13.074	24.219	1.00	0.00
ATOM	1411	N	TRP	93	-3.481	9.503	20.467	1.00	0.00
ATOM	1412	CA	TRP	93	-2.533	9.155	19.402	1.00	0.00
ATOM	1423	C	TRP	93	-1.259	8.525	19.959	1.00	0.00
ATOM	1424	O	TRP	93	-0.614	7.729	19.280	1.00	0.00
ATOM	1413	CB	TRP	93	-2.164	10.379	18.557	1.00	0.00
ATOM	1414	CG	TRP	93	-3.301	11.328	18.305	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.437	12.582	18.825	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.452	11.115	17.469	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.592	13.162	18.366	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.233	12.284	17.538	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.901	10.056	16.671	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.431	12.426	16.842	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.094	10.202	15.980	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.843	11.378	16.072	1.00	0.00
ATOM	1425	H	TRP	93	-3.832	10.419	20.506	1.00	0.00
ATOM	1426	HA	TRP	93	-3.014	8.430	18.760	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.794	10.042	17.598	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.383	10.928	19.061	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.729	13.041	19.498	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.910	14.067	18.591	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.336	9.139	16.588	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.023	13.327	16.900	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.459	9.401	15.355	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.767	11.446	15.516	1.00	0.00
ATOM	1435	N	GLY	94	-0.907	8.869	21.199	1.00	0.00
ATOM	1436	CA	GLY	94	0.275	8.303	21.813	1.00	0.00
ATOM	1437	C	GLY	94	0.148	6.799	21.948	1.00	0.00
ATOM	1438	O	GLY	94	1.072	6.050	21.642	1.00	0.00
ATOM	1439	H	GLY	94	-1.462	9.498	21.705	1.00	0.00
ATOM	1440	1HA	GLY	94	0.404	8.733	22.795	1.00	0.00
ATOM	1441	2HA	GLY	94	1.137	8.540	21.207	1.00	0.00
ATOM	1442	N	ARG	95	-1.021	6.361	22.395	1.00	0.00
ATOM	1443	CA	ARG	95	-1.301	4.943	22.561	1.00	0.00
ATOM	1451	C	ARG	95	-1.836	4.329	21.274	1.00	0.00
ATOM	1452	O	ARG	95	-1.780	3.113	21.099	1.00	0.00
ATOM	1444	CB	ARG	95	-2.287	4.728	23.708	1.00	0.00
ATOM	1445	CG	ARG	95	-1.706	5.067	25.070	1.00	0.00
ATOM	1446	CD	ARG	95	-1.899	3.931	26.057	1.00	0.00
ATOM	1447	NE	ARG	95	-0.905	2.867	25.887	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.682	1.914	26.795	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.371	1.913	27.927	1.00	0.00
ATOM	1450	NH2	ARG	95	0.220	0.963	26.565	1.00	0.00
ATOM	1453	H	ARG	95	-1.724	7.012	22.607	1.00	0.00
ATOM	1454	HA	ARG	95	-0.369	4.456	22.804	1.00	0.00
ATOM	1455	1HB	ARG	95	-2.591	3.691	23.716	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.154	5.349	23.543	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.199	5.950	25.449	1.00	0.00
ATOM	1458	2HG	ARG	95	-0.649	5.262	24.963	1.00	0.00
ATOM	1459	1HD	ARG	95	-2.886	3.513	25.914	1.00	0.00
ATOM	1460	2HD	ARG	95	-1.820	4.326	27.059	1.00	0.00
ATOM	1461	HE	ARG	95	-0.393	2.860	25.051	1.00	0.00
ATOM	1462	1HH1	ARG	95	-2.055	2.625	28.099	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.216	1.200	28.619	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.738	0.954	25.709	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.383	0.247	27.249	1.00	0.00
ATOM	1466	N	LEU	96	-2.348	5.177	20.380	1.00	0.00
ATOM	1467	CA	LEU	96	-2.893	4.727	19.096	1.00	0.00
ATOM	1472	C	LEU	96	-1.855	3.909	18.338	1.00	0.00
ATOM	1473	O	LEU	96	-2.185	2.966	17.610	1.00	0.00



ATOM	1468	CB	LEU	96	-3.323	5.933	18.250	1.00	0.00
ATOM	1469	CG	LEU	96	-4.679	5.820	17.535	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.544	6.256	16.087	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.233	4.402	17.603	1.00	0.00
ATOM	1474	H	LEU	96	-2.359	6.136	20.589	1.00	0.00
ATOM	1475	HA	LEU	96	-3.754	4.106	19.294	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.564	6.103	17.500	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.358	6.799	18.896	1.00	0.00
ATOM	1478	HG	LEU	96	-5.387	6.480	18.015	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.521	6.542	15.891	1.00	0.00
ATOM	1480	2HD1	LEU	96	-5.196	7.097	15.901	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.819	5.437	15.439	1.00	0.00
ATOM	1482	1HD2	LEU	96	-5.871	4.224	16.750	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.804	4.283	18.512	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.416	3.697	17.595	1.00	0.00
ATOM	1485	N	VAL	97	-0.596	4.266	18.546	1.00	0.00
ATOM	1486	CA	VAL	97	0.508	3.567	17.921	1.00	0.00
ATOM	1490	C	VAL	97	0.522	2.115	18.371	1.00	0.00
ATOM	1491	O	VAL	97	0.511	1.195	17.557	1.00	0.00
ATOM	1487	CB	VAL	97	1.854	4.193	18.295	1.00	0.00
ATOM	1488	CG1	VAL	97	2.934	3.635	17.397	1.00	0.00
ATOM	1489	CG2	VAL	97	1.798	5.711	18.210	1.00	0.00
ATOM	1492	H	VAL	97	-0.408	5.009	19.160	1.00	0.00
ATOM	1493	HA	VAL	97	0.394	3.616	16.842	1.00	0.00
ATOM	1494	HB	VAL	97	2.087	3.917	19.313	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.594	3.006	17.974	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.499	4.449	16.965	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.481	3.053	16.608	1.00	0.00
ATOM	1498	1HG2	VAL	97	2.794	6.100	18.057	1.00	0.00
ATOM	1499	2HG2	VAL	97	1.393	6.108	19.128	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.168	6.003	17.383	1.00	0.00
ATOM	1501	N	ALA	98	0.531	1.933	19.687	1.00	0.00
ATOM	1502	CA	ALA	98	0.541	0.610	20.292	1.00	0.00
ATOM	1504	C	ALA	98	-0.718	-0.170	19.936	1.00	0.00
ATOM	1505	O	ALA	98	-0.686	-1.391	19.859	1.00	0.00
ATOM	1503	CB	ALA	98	0.684	0.722	21.802	1.00	0.00
ATOM	1506	H	ALA	98	0.526	2.720	20.270	1.00	0.00
ATOM	1507	HA	ALA	98	1.400	0.077	19.912	1.00	0.00
ATOM	1508	1HB	ALA	98	1.726	0.843	22.055	1.00	0.00
ATOM	1509	2HB	ALA	98	0.302	-0.176	22.267	1.00	0.00
ATOM	1510	3HB	ALA	98	0.125	1.576	22.155	1.00	0.00
ATOM	1511	N	PHE	99	-1.817	0.544	19.714	1.00	0.00
ATOM	1512	CA	PHE	99	-3.082	-0.082	19.355	1.00	0.00
ATOM	1520	C	PHE	99	-2.916	-0.933	18.102	1.00	0.00
ATOM	1521	O	PHE	99	-3.231	-2.125	18.098	1.00	0.00
ATOM	1513	CB	PHE	99	-4.146	0.994	19.095	1.00	0.00
ATOM	1514	CG	PHE	99	-5.000	1.378	20.277	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.854	0.467	20.880	1.00	0.00
ATOM	1516	CD2	PHE	99	-4.968	2.676	20.761	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.654	0.848	21.948	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.765	3.063	21.819	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.609	2.151	22.416	1.00	0.00
ATOM	1522	H	PHE	99	-1.775	1.521	19.785	1.00	0.00
ATOM	1523	HA	PHE	99	-3.389	-0.715	20.170	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.800	0.649	18.312	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.649	1.891	18.756	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.306	3.394	20.299	1.00	0.00
ATOM	1527	HD2	PHE	99	-5.891	-0.549	20.516	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.724	4.080	22.183	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.314	0.130	22.412	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.238	2.459	23.241	1.00	0.00
ATOM	1531	N	PHE	100	-2.420	-0.310	17.043	1.00	0.00
ATOM	1532	CA	PHE	100	-2.214	-1.006	15.779	1.00	0.00
ATOM	1540	C	PHE	100	-0.969	-1.883	15.830	1.00	0.00
ATOM	1541	O	PHE	100	-0.947	-2.985	15.274	1.00	0.00
ATOM	1533	CB	PHE	100	-2.094	0.003	14.636	1.00	0.00
ATOM	1534	CG	PHE	100	-3.396	0.278	13.942	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.336	1.119	14.515	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.680	-0.303	12.718	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.534	1.373	13.879	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.879	-0.052	12.078	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.807	0.787	12.661	1.00	0.00
ATOM	1542	H	PHE	100	-2.189	0.646	17.113	1.00	0.00



ATOM	1543	HA	PHE	100	-3.075	-1.633	15.604	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.399	-0.377	13.901	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.722	0.938	15.026	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.953	-0.959	12.261	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.124	1.579	15.468	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.087	-0.512	11.123	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.260	2.030	14.336	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.746	0.984	12.164	1.00	0.00
ATOM	1551	N	VAL	101	0.067	-1.386	16.494	1.00	0.00
ATOM	1552	CA	VAL	101	1.326	-2.108	16.616	1.00	0.00
ATOM	1556	C	VAL	101	1.142	-3.442	17.342	1.00	0.00
ATOM	1557	O	VAL	101	1.774	-4.436	16.977	1.00	0.00
ATOM	1553	CB	VAL	101	2.396	-1.250	17.341	1.00	0.00
ATOM	1554	CG1	VAL	101	3.450	-2.114	18.024	1.00	0.00
ATOM	1555	CG2	VAL	101	3.058	-0.290	16.364	1.00	0.00
ATOM	1558	H	VAL	101	-0.015	-0.499	16.909	1.00	0.00
ATOM	1559	HA	VAL	101	1.684	-2.309	15.616	1.00	0.00
ATOM	1560	HB	VAL	101	1.899	-0.664	18.101	1.00	0.00
ATOM	1561	1HG1	VAL	101	4.336	-1.524	18.206	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.699	-2.950	17.387	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.062	-2.480	18.963	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.700	0.712	16.547	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.815	-0.580	15.353	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.129	-0.320	16.500	1.00	0.00
ATOM	1567	N	PHE	102	0.281	-3.465	18.362	1.00	0.00
ATOM	1568	CA	PHE	102	0.037	-4.685	19.131	1.00	0.00
ATOM	1576	C	PHE	102	-0.360	-5.848	18.231	1.00	0.00
ATOM	1577	O	PHE	102	0.222	-6.931	18.308	1.00	0.00
ATOM	1569	CB	PHE	102	-1.053	-4.449	20.175	1.00	0.00
ATOM	1570	CG	PHE	102	-0.547	-4.485	21.587	1.00	0.00
ATOM	1571	CD1	PHE	102	0.208	-3.439	22.093	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.827	-5.564	22.406	1.00	0.00
ATOM	1573	CE1	PHE	102	0.673	-3.468	23.393	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.364	-5.599	23.707	1.00	0.00
ATOM	1575	CZ	PHE	102	0.385	-4.549	24.201	1.00	0.00
ATOM	1578	H	PHE	102	-0.205	-2.636	18.613	1.00	0.00
ATOM	1579	HA	PHE	102	0.955	-4.942	19.637	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.810	-5.212	20.073	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.501	-3.480	20.008	1.00	0.00
ATOM	1582	HD1	PHE	102	0.432	-2.593	21.461	1.00	0.00
ATOM	1583	HD2	PHE	102	-1.413	-6.385	22.020	1.00	0.00
ATOM	1584	HE1	PHE	102	1.260	-2.646	23.776	1.00	0.00
ATOM	1585	HE2	PHE	102	-0.590	-6.447	24.337	1.00	0.00
ATOM	1586	HZ	PHE	102	0.746	-4.575	25.219	1.00	0.00
ATOM	1587	N	GLY	103	-1.350	-5.625	17.383	1.00	0.00
ATOM	1588	CA	GLY	103	-1.796	-6.677	16.497	1.00	0.00
ATOM	1589	C	GLY	103	-0.861	-6.903	15.331	1.00	0.00
ATOM	1590	O	GLY	103	-0.655	-8.042	14.922	1.00	0.00
ATOM	1591	H	GLY	103	-1.781	-4.743	17.364	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.769	-6.430	16.119	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.870	-7.594	17.061	1.00	0.00
ATOM	1594	N	ALA	104	-0.293	-5.828	14.792	1.00	0.00
ATOM	1595	CA	ALA	104	0.628	-5.933	13.662	1.00	0.00
ATOM	1597	C	ALA	104	1.838	-6.784	14.029	1.00	0.00
ATOM	1598	O	ALA	104	2.273	-7.629	13.248	1.00	0.00
ATOM	1596	CB	ALA	104	1.067	-4.551	13.200	1.00	0.00
ATOM	1599	H	ALA	104	-0.497	-4.942	15.163	1.00	0.00
ATOM	1600	HA	ALA	104	0.101	-6.414	12.845	1.00	0.00
ATOM	1601	1HB	ALA	104	0.555	-3.798	13.780	1.00	0.00
ATOM	1602	2HB	ALA	104	0.826	-4.425	12.155	1.00	0.00
ATOM	1603	3HB	ALA	104	2.132	-4.448	13.339	1.00	0.00
ATOM	1604	N	ALA	105	2.366	-6.570	15.228	1.00	0.00
ATOM	1605	CA	ALA	105	3.509	-7.337	15.694	1.00	0.00
ATOM	1607	C	ALA	105	3.096	-8.776	15.968	1.00	0.00
ATOM	1608	O	ALA	105	3.798	-9.715	15.589	1.00	0.00
ATOM	1606	CB	ALA	105	4.111	-6.708	16.945	1.00	0.00
ATOM	1609	H	ALA	105	1.966	-5.889	15.821	1.00	0.00
ATOM	1610	HA	ALA	105	4.260	-7.327	14.915	1.00	0.00
ATOM	1611	1HB	ALA	105	5.075	-7.153	17.144	1.00	0.00
ATOM	1612	2HB	ALA	105	3.454	-6.880	17.786	1.00	0.00
ATOM	1613	3HB	ALA	105	4.228	-5.646	16.794	1.00	0.00
ATOM	1614	N	LEU	106	1.944	-8.940	16.619	1.00	0.00
ATOM	1615	CA	LEU	106	1.425	-10.264	16.945	1.00	0.00



ATOM	1620	C	LEU	106	1.204	-11.085	15.682	1.00	0.00
ATOM	1621	O	LEU	106	1.528	-12.272	15.626	1.00	0.00
ATOM	1616	CB	LEU	106	0.117	-10.136	17.730	1.00	0.00
ATOM	1617	CG	LEU	106	-0.145	-11.255	18.738	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.027	-10.723	20.156	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.516	-11.872	18.506	1.00	0.00
ATOM	1622	H	LEU	106	1.424	-8.145	16.883	1.00	0.00
ATOM	1623	HA	LEU	106	2.158	-10.764	17.560	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.705	-10.111	17.026	1.00	0.00
ATOM	1625	2HB	LEU	106	0.137	-9.197	18.265	1.00	0.00
ATOM	1626	HG	LEU	106	0.598	-12.029	18.609	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.307	-9.680	20.173	1.00	0.00
ATOM	1628	2HD1	LEU	106	0.993	-10.827	20.495	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.681	-11.282	20.809	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.404	-12.922	18.273	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.000	-11.371	17.682	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.117	-11.763	19.397	1.00	0.00
ATOM	1633	N	CYS	107	0.658	-10.433	14.672	1.00	0.00
ATOM	1634	CA	CYS	107	0.385	-11.067	13.394	1.00	0.00
ATOM	1637	C	CYS	107	1.677	-11.516	12.718	1.00	0.00
ATOM	1638	O	CYS	107	1.759	-12.632	12.210	1.00	0.00
ATOM	1635	CB	CYS	107	-0.381	-10.096	12.493	1.00	0.00
ATOM	1636	SG	CYS	107	-2.078	-9.778	13.027	1.00	0.00
ATOM	1639	H	CYS	107	0.434	-9.485	14.790	1.00	0.00
ATOM	1640	HA	CYS	107	-0.228	-11.935	13.574	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.418	-10.492	11.492	1.00	0.00
ATOM	1642	2HB	CYS	107	0.140	-9.150	12.479	1.00	0.00
ATOM	1643	HG	CYS	107	-2.025	-8.911	14.031	1.00	0.00
ATOM	1644	N	ALA	108	2.680	-10.645	12.723	1.00	0.00
ATOM	1645	CA	ALA	108	3.971	-10.950	12.108	1.00	0.00
ATOM	1647	C	ALA	108	4.571	-12.235	12.671	1.00	0.00
ATOM	1648	O	ALA	108	5.062	-13.083	11.922	1.00	0.00
ATOM	1646	CB	ALA	108	4.934	-9.788	12.296	1.00	0.00
ATOM	1649	H	ALA	108	2.551	-9.769	13.149	1.00	0.00
ATOM	1650	HA	ALA	108	3.808	-11.081	11.047	1.00	0.00
ATOM	1651	1HB	ALA	108	5.188	-9.695	13.341	1.00	0.00
ATOM	1652	2HB	ALA	108	4.468	-8.875	11.955	1.00	0.00
ATOM	1653	3HB	ALA	108	5.832	-9.969	11.723	1.00	0.00
ATOM	1654	N	GLU	109	4.531	-12.381	13.988	1.00	0.00
ATOM	1655	CA	GLU	109	5.081	-13.564	14.634	1.00	0.00
ATOM	1661	C	GLU	109	4.161	-14.773	14.493	1.00	0.00
ATOM	1662	O	GLU	109	4.597	-15.911	14.676	1.00	0.00
ATOM	1656	CB	GLU	109	5.365	-13.297	16.109	1.00	0.00
ATOM	1657	CG	GLU	109	6.834	-13.047	16.398	1.00	0.00
ATOM	1658	CD	GLU	109	7.326	-13.841	17.588	1.00	0.00
ATOM	1659	OE1	GLU	109	7.030	-13.453	18.731	1.00	0.00
ATOM	1660	OE2	GLU	109	7.993	-14.874	17.369	1.00	0.00
ATOM	1663	H	GLU	109	4.127	-11.673	14.540	1.00	0.00
ATOM	1664	HA	GLU	109	6.014	-13.794	14.140	1.00	0.00
ATOM	1665	1HB	GLU	109	5.046	-14.151	16.689	1.00	0.00
ATOM	1666	2HB	GLU	109	4.805	-12.429	16.422	1.00	0.00
ATOM	1667	1HG	GLU	109	6.976	-11.996	16.598	1.00	0.00
ATOM	1668	2HG	GLU	109	7.413	-13.330	15.532	1.00	0.00
ATOM	1669	N	SER	110	2.901	-14.537	14.164	1.00	0.00
ATOM	1670	CA	SER	110	1.953	-15.627	14.000	1.00	0.00
ATOM	1673	C	SER	110	2.074	-16.244	12.606	1.00	0.00
ATOM	1674	O	SER	110	1.766	-17.419	12.413	1.00	0.00
ATOM	1671	CB	SER	110	0.527	-15.138	14.253	1.00	0.00
ATOM	1672	OG	SER	110	0.369	-14.714	15.597	1.00	0.00
ATOM	1675	H	SER	110	2.601	-13.612	14.027	1.00	0.00
ATOM	1676	HA	SER	110	2.197	-16.384	14.732	1.00	0.00
ATOM	1677	1HB	SER	110	-0.168	-15.941	14.058	1.00	0.00
ATOM	1678	2HB	SER	110	0.310	-14.307	13.598	1.00	0.00
ATOM	1679	HG	SER	110	0.785	-13.849	15.713	1.00	0.00
ATOM	1680	N	VAL	111	2.536	-15.445	11.644	1.00	0.00
ATOM	1681	CA	VAL	111	2.706	-15.912	10.268	1.00	0.00
ATOM	1685	C	VAL	111	3.859	-16.907	10.171	1.00	0.00
ATOM	1686	O	VAL	111	3.785	-17.887	9.434	1.00	0.00
ATOM	1682	CB	VAL	111	2.962	-14.739	9.291	1.00	0.00
ATOM	1683	CG1	VAL	111	3.178	-15.251	7.874	1.00	0.00
ATOM	1684	CG2	VAL	111	1.806	-13.753	9.322	1.00	0.00
ATOM	1687	H	VAL	111	2.770	-14.518	11.865	1.00	0.00
ATOM	1688	HA	VAL	111	1.792	-16.408	9.971	1.00	0.00



ATOM	1689	HB	VAL	111	3.859	-14.221	9.605	1.00	0.00
ATOM	1690	1HG1	VAL	111	4.025	-14.744	7.433	1.00	0.00
ATOM	1691	2HG1	VAL	111	2.296	-15.058	7.283	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.369	-16.314	7.901	1.00	0.00
ATOM	1693	1HG2	VAL	111	2.176	-12.757	9.124	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.339	-13.776	10.295	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.082	-14.023	8.568	1.00	0.00
ATOM	1696	N	ASN	112	4.927	-16.651	10.921	1.00	0.00
ATOM	1697	CA	ASN	112	6.092	-17.537	10.905	1.00	0.00
ATOM	1702	C	ASN	112	5.888	-18.735	11.828	1.00	0.00
ATOM	1703	O	ASN	112	6.770	-19.580	11.970	1.00	0.00
ATOM	1698	CB	ASN	112	7.378	-16.781	11.278	1.00	0.00
ATOM	1699	CG	ASN	112	7.363	-16.196	12.681	1.00	0.00
ATOM	1700	OD1	ASN	112	7.356	-16.919	13.679	1.00	0.00
ATOM	1701	ND2	ASN	112	7.372	-14.872	12.767	1.00	0.00
ATOM	1704	H	ASN	112	4.934	-15.854	11.495	1.00	0.00
ATOM	1705	HA	ASN	112	6.195	-17.907	9.895	1.00	0.00
ATOM	1706	1HB	ASN	112	7.525	-15.974	10.576	1.00	0.00
ATOM	1707	2HB	ASN	112	8.213	-17.462	11.209	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.387	-14.353	11.934	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.372	-14.465	13.659	1.00	0.00
ATOM	1710	N	LYS	113	4.721	-18.806	12.447	1.00	0.00
ATOM	1711	CA	LYS	113	4.403	-19.901	13.344	1.00	0.00
ATOM	1717	C	LYS	113	3.167	-20.647	12.850	1.00	0.00
ATOM	1718	O	LYS	113	2.670	-20.379	11.758	1.00	0.00
ATOM	1712	CB	LYS	113	4.183	-19.374	14.761	1.00	0.00
ATOM	1713	CG	LYS	113	5.346	-19.651	15.699	1.00	0.00
ATOM	1714	CD	LYS	113	5.253	-18.811	16.964	1.00	0.00
ATOM	1715	CE	LYS	113	6.543	-18.049	17.225	1.00	0.00
ATOM	1716	NZ	LYS	113	6.664	-16.853	16.352	1.00	0.00
ATOM	1719	H	LYS	113	4.052	-18.109	12.288	1.00	0.00
ATOM	1720	HA	LYS	113	5.241	-20.582	13.348	1.00	0.00
ATOM	1721	1HB	LYS	113	3.299	-19.837	15.171	1.00	0.00
ATOM	1722	2HB	LYS	113	4.031	-18.306	14.714	1.00	0.00
ATOM	1723	1HG	LYS	113	6.270	-19.419	15.190	1.00	0.00
ATOM	1724	2HG	LYS	113	5.334	-20.695	15.973	1.00	0.00
ATOM	1725	1HD	LYS	113	5.055	-19.464	17.802	1.00	0.00
ATOM	1726	2HD	LYS	113	4.445	-18.104	16.856	1.00	0.00
ATOM	1727	1HE	LYS	113	7.379	-18.707	17.039	1.00	0.00
ATOM	1728	2HE	LYS	113	6.555	-17.734	18.256	1.00	0.00
ATOM	1729	1HZ	LYS	113	5.721	-16.481	16.119	1.00	0.00
ATOM	1730	2HZ	LYS	113	7.154	-17.097	15.466	1.00	0.00
ATOM	1731	3HZ	LYS	113	7.211	-16.104	16.844	1.00	0.00
ATOM	1732	N	GLU	114	2.675	-21.577	13.653	1.00	0.00
ATOM	1733	CA	GLU	114	1.501	-22.362	13.288	1.00	0.00
ATOM	1739	C	GLU	114	0.217	-21.698	13.782	1.00	0.00
ATOM	1740	O	GLU	114	-0.655	-22.346	14.361	1.00	0.00
ATOM	1734	CB	GLU	114	1.622	-23.776	13.855	1.00	0.00
ATOM	1735	CG	GLU	114	2.867	-24.509	13.384	1.00	0.00
ATOM	1736	CD	GLU	114	2.759	-26.009	13.549	1.00	0.00
ATOM	1737	OE1	GLU	114	1.626	-26.529	13.562	1.00	0.00
ATOM	1738	OE2	GLU	114	3.813	-26.677	13.659	1.00	0.00
ATOM	1741	H	GLU	114	3.109	-21.745	14.513	1.00	0.00
ATOM	1742	HA	GLU	114	1.469	-22.421	12.211	1.00	0.00
ATOM	1743	1HB	GLU	114	0.759	-24.351	13.554	1.00	0.00
ATOM	1744	2HB	GLU	114	1.648	-23.721	14.933	1.00	0.00
ATOM	1745	1HG	GLU	114	3.711	-24.156	13.954	1.00	0.00
ATOM	1746	2HG	GLU	114	3.024	-24.288	12.338	1.00	0.00
ATOM	1747	N	MET	115	0.102	-20.399	13.543	1.00	0.00
ATOM	1748	CA	MET	115	-1.077	-19.652	13.956	1.00	0.00
ATOM	1753	C	MET	115	-1.438	-18.615	12.902	1.00	0.00
ATOM	1754	O	MET	115	-1.875	-17.510	13.223	1.00	0.00
ATOM	1749	CB	MET	115	-0.863	-18.976	15.320	1.00	0.00
ATOM	1750	CG	MET	115	0.581	-18.606	15.617	1.00	0.00
ATOM	1751	SD	MET	115	1.486	-19.923	16.457	1.00	0.00
ATOM	1752	CE	MET	115	0.693	-19.929	18.060	1.00	0.00
ATOM	1755	H	MET	115	0.825	-19.933	13.070	1.00	0.00
ATOM	1756	HA	MET	115	-1.896	-20.355	14.040	1.00	0.00
ATOM	1757	1HB	MET	115	-1.207	-19.645	16.096	1.00	0.00
ATOM	1758	2HB	MET	115	-1.454	-18.073	15.353	1.00	0.00
ATOM	1759	1HG	MET	115	0.592	-17.725	16.243	1.00	0.00
ATOM	1760	2HG	MET	115	1.080	-18.386	14.685	1.00	0.00
ATOM	1761	1HE	MET	115	0.571	-20.947	18.398	1.00	0.00



ATOM	1762	2HE	MET	115	-0.276	-19.457	17.983	1.00	0.00
ATOM	1763	3HE	MET	115	1.303	-19.385	18.766	1.00	0.00
ATOM	1764	N	GLU	116	-1.256	-18.992	11.641	1.00	0.00
ATOM	1765	CA	GLU	116	-1.564	-18.115	10.513	1.00	0.00
ATOM	1771	C	GLU	116	-3.024	-17.629	10.541	1.00	0.00
ATOM	1772	O	GLU	116	-3.268	-16.430	10.420	1.00	0.00
ATOM	1766	CB	GLU	116	-1.267	-18.813	9.182	1.00	0.00
ATOM	1767	CG	GLU	116	0.025	-19.613	9.180	1.00	0.00
ATOM	1768	CD	GLU	116	-0.154	-20.991	8.578	1.00	0.00
ATOM	1769	OE1	GLU	116	-0.777	-21.098	7.502	1.00	0.00
ATOM	1770	OE2	GLU	116	0.312	-21.974	9.186	1.00	0.00
ATOM	1773	H	GLU	116	-0.910	-19.891	11.461	1.00	0.00
ATOM	1774	HA	GLU	116	-0.921	-17.252	10.597	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.202	-18.066	8.404	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.080	-19.486	8.953	1.00	0.00
ATOM	1777	1HG	GLU	116	0.369	-19.722	10.199	1.00	0.00
ATOM	1778	2HG	GLU	116	0.766	-19.078	8.605	1.00	0.00
ATOM	1779	N	PRO	117	-4.024	-18.534	10.698	1.00	0.00
ATOM	1780	CA	PRO	117	-5.443	-18.137	10.734	1.00	0.00
ATOM	1784	C	PRO	117	-5.749	-17.126	11.841	1.00	0.00
ATOM	1785	O	PRO	117	-6.694	-16.346	11.739	1.00	0.00
ATOM	1781	CB	PRO	117	-6.183	-19.452	11.003	1.00	0.00
ATOM	1782	CG	PRO	117	-5.249	-20.519	10.557	1.00	0.00
ATOM	1783	CD	PRO	117	-3.872	-19.998	10.841	1.00	0.00
ATOM	1786	HA	PRO	117	-5.762	-17.731	9.784	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.103	-19.471	10.437	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.403	-19.534	12.057	1.00	0.00
ATOM	1789	1HG	PRO	117	-5.372	-20.700	9.499	1.00	0.00
ATOM	1790	2HG	PRO	117	-5.431	-21.425	11.118	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.165	-20.384	10.120	1.00	0.00
ATOM	1792	2HD	PRO	117	-3.569	-20.257	11.845	1.00	0.00
ATOM	1793	N	LEU	118	-4.940	-17.141	12.896	1.00	0.00
ATOM	1794	CA	LEU	118	-5.125	-16.228	14.019	1.00	0.00
ATOM	1799	C	LEU	118	-4.808	-14.792	13.612	1.00	0.00
ATOM	1800	O	LEU	118	-5.323	-13.848	14.205	1.00	0.00
ATOM	1795	CB	LEU	118	-4.247	-16.647	15.202	1.00	0.00
ATOM	1796	CG	LEU	118	-4.961	-17.440	16.302	1.00	0.00
ATOM	1797	CD1	LEU	118	-6.243	-16.738	16.730	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.256	-18.860	15.834	1.00	0.00
ATOM	1801	H	LEU	118	-4.198	-17.778	12.917	1.00	0.00
ATOM	1802	HA	LEU	118	-6.163	-16.282	14.317	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.831	-15.755	15.647	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.434	-17.250	14.824	1.00	0.00
ATOM	1805	HG	LEU	118	-4.314	-17.502	17.166	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.959	-16.772	15.924	1.00	0.00
ATOM	1807	2HD1	LEU	118	-6.024	-15.709	16.975	1.00	0.00
ATOM	1808	3HD1	LEU	118	-6.653	-17.235	17.597	1.00	0.00
ATOM	1809	1HD2	LEU	118	-5.790	-19.390	16.608	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.328	-19.369	15.623	1.00	0.00
ATOM	1811	3HD2	LEU	118	-5.860	-18.824	14.939	1.00	0.00
ATOM	1812	N	VAL	119	-3.964	-14.644	12.594	1.00	0.00
ATOM	1813	CA	VAL	119	-3.574	-13.328	12.092	1.00	0.00
ATOM	1817	C	VAL	119	-4.798	-12.522	11.664	1.00	0.00
ATOM	1818	O	VAL	119	-4.931	-11.344	11.999	1.00	0.00
ATOM	1814	CB	VAL	119	-2.598	-13.454	10.899	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.427	-12.123	10.179	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.253	-13.985	11.368	1.00	0.00
ATOM	1819	H	VAL	119	-3.596	-15.444	12.162	1.00	0.00
ATOM	1820	HA	VAL	119	-3.069	-12.802	12.891	1.00	0.00
ATOM	1821	HB	VAL	119	-3.012	-14.165	10.197	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.377	-11.879	10.117	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.944	-11.349	10.727	1.00	0.00
ATOM	1824	3HG1	VAL	119	-2.839	-12.195	9.183	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.197	-13.918	12.445	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.461	-13.397	10.928	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.148	-15.017	11.066	1.00	0.00
ATOM	1828	N	GLY	120	-5.699	-13.168	10.933	1.00	0.00
ATOM	1829	CA	GLY	120	-6.900	-12.492	10.487	1.00	0.00
ATOM	1830	C	GLY	120	-7.811	-12.150	11.643	1.00	0.00
ATOM	1831	O	GLY	120	-8.464	-11.107	11.634	1.00	0.00
ATOM	1832	H	GLY	120	-5.550	-14.110	10.704	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.431	-13.123	9.797	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.620	-11.581	9.981	1.00	0.00



ATOM	1835	N	GLN	121	-7.841	-13.019	12.650	1.00	0.00
ATOM	1836	CA	GLN	121	-8.670	-12.785	13.823	1.00	0.00
ATOM	1842	C	GLN	121	-8.159	-11.572	14.580	1.00	0.00
ATOM	1843	O	GLN	121	-8.918	-10.668	14.878	1.00	0.00
ATOM	1837	CB	GLN	121	-8.704	-14.010	14.738	1.00	0.00
ATOM	1838	CG	GLN	121	-9.872	-14.948	14.468	1.00	0.00
ATOM	1839	CD	GLN	121	-9.722	-15.717	13.169	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.905	-15.167	12.082	1.00	0.00
ATOM	1841	NE2	GLN	121	-9.391	-16.996	13.269	1.00	0.00
ATOM	1844	H	GLN	121	-7.289	-13.826	12.605	1.00	0.00
ATOM	1845	HA	GLN	121	-9.673	-12.577	13.479	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.775	-13.674	15.763	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.790	-14.560	14.619	1.00	0.00
ATOM	1848	1HG	GLN	121	-10.780	-14.365	14.419	1.00	0.00
ATOM	1849	2HG	GLN	121	-9.944	-15.657	15.279	1.00	0.00
ATOM	1850	1HE2	GLN	121	-9.261	-17.376	14.169	1.00	0.00
ATOM	1851	2HE2	GLN	121	-9.290	-17.514	12.443	1.00	0.00
ATOM	1852	N	VAL	122	-6.865	-11.533	14.863	1.00	0.00
ATOM	1853	CA	VAL	122	-6.286	-10.390	15.566	1.00	0.00
ATOM	1857	C	VAL	122	-6.546	-9.113	14.776	1.00	0.00
ATOM	1858	O	VAL	122	-6.744	-8.039	15.347	1.00	0.00
ATOM	1854	CB	VAL	122	-4.766	-10.560	15.789	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.217	-9.437	16.653	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.458	-11.911	16.417	1.00	0.00
ATOM	1859	H	VAL	122	-6.284	-12.275	14.582	1.00	0.00
ATOM	1860	HA	VAL	122	-6.778	-10.303	16.531	1.00	0.00
ATOM	1861	HB	VAL	122	-4.274	-10.516	14.828	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.815	-9.850	17.567	1.00	0.00
ATOM	1863	2HG1	VAL	122	-5.012	-8.745	16.892	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.436	-8.919	16.117	1.00	0.00
ATOM	1865	1HG2	VAL	122	-3.388	-12.056	16.452	1.00	0.00
ATOM	1866	2HG2	VAL	122	-4.908	-12.695	15.825	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.857	-11.942	17.419	1.00	0.00
ATOM	1868	N	GLN	123	-6.576	-9.251	13.458	1.00	0.00
ATOM	1869	CA	GLN	123	-6.842	-8.133	12.577	1.00	0.00
ATOM	1875	C	GLN	123	-8.269	-7.631	12.770	1.00	0.00
ATOM	1876	O	GLN	123	-8.502	-6.425	12.884	1.00	0.00
ATOM	1870	CB	GLN	123	-6.612	-8.541	11.118	1.00	0.00
ATOM	1871	CG	GLN	123	-6.125	-7.398	10.243	1.00	0.00
ATOM	1872	CD	GLN	123	-5.570	-7.872	8.917	1.00	0.00
ATOM	1873	OE1	GLN	123	-5.936	-7.361	7.858	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.682	-8.854	8.963	1.00	0.00
ATOM	1877	H	GLN	123	-6.433	-10.142	13.072	1.00	0.00
ATOM	1878	HA	GLN	123	-6.158	-7.338	12.835	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.539	-8.916	10.708	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.874	-9.331	11.088	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.349	-6.864	10.772	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.953	-6.732	10.052	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.437	-9.217	9.842	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.305	-9.175	8.120	1.00	0.00
ATOM	1885	N	GLU	124	-9.223	-8.556	12.819	1.00	0.00
ATOM	1886	CA	GLU	124	-10.618	-8.188	13.008	1.00	0.00
ATOM	1892	C	GLU	124	-10.880	-7.776	14.453	1.00	0.00
ATOM	1893	O	GLU	124	-11.645	-6.848	14.692	1.00	0.00
ATOM	1887	CB	GLU	124	-11.562	-9.315	12.581	1.00	0.00
ATOM	1888	CG	GLU	124	-11.314	-10.627	13.292	1.00	0.00
ATOM	1889	CD	GLU	124	-12.345	-11.682	12.949	1.00	0.00
ATOM	1890	OE1	GLU	124	-12.705	-11.796	11.754	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.795	-12.401	13.866	1.00	0.00
ATOM	1894	H	GLU	124	-8.982	-9.506	12.731	1.00	0.00
ATOM	1895	HA	GLU	124	-10.806	-7.329	12.378	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.448	-9.480	11.519	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.578	-9.011	12.781	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.329	-10.450	14.359	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.335	-10.990	13.010	1.00	0.00
ATOM	1900	N	TRP	125	-10.226	-8.437	15.419	1.00	0.00
ATOM	1901	CA	TRP	125	-10.403	-8.075	16.827	1.00	0.00
ATOM	1912	C	TRP	125	-10.037	-6.611	16.999	1.00	0.00
ATOM	1913	O	TRP	125	-10.674	-5.864	17.746	1.00	0.00
ATOM	1902	CB	TRP	125	-9.486	-8.880	17.777	1.00	0.00
ATOM	1903	CG	TRP	125	-9.573	-10.385	17.734	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.584	-11.177	17.261	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.561	-11.277	18.215	1.00	0.00



ATOM	1906	NE1 TRP	125	-10.247	-12.507	17.418	1.00	0.00
ATOM	1907	CE2 TRP	125	-9.009	-12.589	17.989	1.00	0.00
ATOM	1908	CE3 TRP	125	-7.309	-11.086	18.809	1.00	0.00
ATOM	1909	CZ2 TRP	125	-8.248	-13.706	18.331	1.00	0.00
ATOM	1910	CZ3 TRP	125	-6.558	-12.192	19.152	1.00	0.00
ATOM	1911	CH2 TRP	125	-7.026	-13.487	18.908	1.00	0.00
ATOM	1914	H TRP	125	-9.601	-9.166	15.178	1.00	0.00
ATOM	1915	HA TRP	125	-11.438	-8.215	17.091	1.00	0.00
ATOM	1916	1HB TRP	125	-9.692	-8.573	18.789	1.00	0.00
ATOM	1917	2HB TRP	125	-8.464	-8.623	17.551	1.00	0.00
ATOM	1918	HD1 TRP	125	-11.497	-10.809	16.832	1.00	0.00
ATOM	1919	HE1 TRP	125	-10.806	-13.271	17.161	1.00	0.00
ATOM	1920	HE3 TRP	125	-6.936	-10.092	19.020	1.00	0.00
ATOM	1921	HZ2 TRP	125	-8.594	-14.711	18.148	1.00	0.00
ATOM	1922	HZ3 TRP	125	-5.589	-12.061	19.610	1.00	0.00
ATOM	1923	HH2 TRP	125	-6.407	-14.324	19.204	1.00	0.00
ATOM	1924	N MET	126	-8.986	-6.223	16.294	1.00	0.00
ATOM	1925	CA MET	126	-8.479	-4.859	16.351	1.00	0.00
ATOM	1930	C MET	126	-9.383	-3.889	15.605	1.00	0.00
ATOM	1931	O MET	126	-9.821	-2.885	16.168	1.00	0.00
ATOM	1926	CB MET	126	-7.064	-4.805	15.773	1.00	0.00
ATOM	1927	CG MET	126	-6.282	-3.565	16.174	1.00	0.00
ATOM	1928	SD MET	126	-5.217	-2.963	14.849	1.00	0.00
ATOM	1929	CE MET	126	-4.118	-4.360	14.627	1.00	0.00
ATOM	1932	H MET	126	-8.530	-6.888	15.721	1.00	0.00
ATOM	1933	HA MET	126	-8.445	-4.564	17.386	1.00	0.00
ATOM	1934	1HB MET	126	-7.129	-4.829	14.696	1.00	0.00
ATOM	1935	2HB MET	126	-6.517	-5.673	16.110	1.00	0.00
ATOM	1936	1HG MET	126	-5.669	-3.804	17.030	1.00	0.00
ATOM	1937	2HG MET	126	-6.980	-2.785	16.439	1.00	0.00
ATOM	1938	1HE MET	126	-4.701	-5.260	14.493	1.00	0.00
ATOM	1939	2HE MET	126	-3.489	-4.465	15.499	1.00	0.00
ATOM	1940	3HE MET	126	-3.500	-4.197	13.756	1.00	0.00
ATOM	1941	N VAL	127	-9.647	-4.177	14.338	1.00	0.00
ATOM	1942	CA VAL	127	-10.480	-3.303	13.524	1.00	0.00
ATOM	1946	C VAL	127	-11.900	-3.178	14.087	1.00	0.00
ATOM	1947	O VAL	127	-12.510	-2.115	13.983	1.00	0.00
ATOM	1943	CB VAL	127	-10.517	-3.748	12.038	1.00	0.00
ATOM	1944	CG1 VAL	127	-11.441	-4.938	11.827	1.00	0.00
ATOM	1945	CG2 VAL	127	-10.927	-2.586	11.144	1.00	0.00
ATOM	1948	H VAL	127	-9.259	-4.987	13.937	1.00	0.00
ATOM	1949	HA VAL	127	-10.028	-2.322	13.557	1.00	0.00
ATOM	1950	HB VAL	127	-9.517	-4.047	11.754	1.00	0.00
ATOM	1951	1HG1 VAL	127	-11.653	-5.048	10.773	1.00	0.00
ATOM	1952	2HG1 VAL	127	-12.363	-4.777	12.365	1.00	0.00
ATOM	1953	3HG1 VAL	127	-10.963	-5.834	12.193	1.00	0.00
ATOM	1954	1HG2 VAL	127	-10.108	-1.885	11.068	1.00	0.00
ATOM	1955	2HG2 VAL	127	-11.787	-2.090	11.569	1.00	0.00
ATOM	1956	3HG2 VAL	127	-11.175	-2.957	10.160	1.00	0.00
ATOM	1957	N GLU	128	-12.420	-4.240	14.705	1.00	0.00
ATOM	1958	CA GLU	128	-13.758	-4.180	15.277	1.00	0.00
ATOM	1964	C GLU	128	-13.773	-3.264	16.486	1.00	0.00
ATOM	1965	O GLU	128	-14.640	-2.398	16.611	1.00	0.00
ATOM	1959	CB GLU	128	-14.254	-5.573	15.658	1.00	0.00
ATOM	1960	CG GLU	128	-14.935	-6.306	14.515	1.00	0.00
ATOM	1961	CD GLU	128	-16.393	-6.594	14.798	1.00	0.00
ATOM	1962	OE1 GLU	128	-16.700	-7.073	15.908	1.00	0.00
ATOM	1963	OE2 GLU	128	-17.237	-6.345	13.908	1.00	0.00
ATOM	1966	H GLU	128	-11.892	-5.075	14.789	1.00	0.00
ATOM	1967	HA GLU	128	-14.410	-3.764	14.529	1.00	0.00
ATOM	1968	1HB GLU	128	-14.959	-5.483	16.471	1.00	0.00
ATOM	1969	2HB GLU	128	-13.412	-6.166	15.987	1.00	0.00
ATOM	1970	1HG GLU	128	-14.423	-7.242	14.348	1.00	0.00
ATOM	1971	2HG GLU	128	-14.871	-5.698	13.626	1.00	0.00
ATOM	1972	N TYR	129	-12.795	-3.439	17.360	1.00	0.00
ATOM	1973	CA TYR	129	-12.685	-2.610	18.551	1.00	0.00
ATOM	1982	C TYR	129	-12.489	-1.152	18.164	1.00	0.00
ATOM	1983	O TYR	129	-12.987	-0.235	18.825	1.00	0.00
ATOM	1974	CB TYR	129	-11.497	-3.063	19.399	1.00	0.00
ATOM	1975	CG TYR	129	-11.575	-2.591	20.830	1.00	0.00
ATOM	1976	CD1 TYR	129	-11.062	-1.355	21.201	1.00	0.00
ATOM	1977	CD2 TYR	129	-12.178	-3.371	21.806	1.00	0.00
ATOM	1978	CE1 TYR	129	-11.147	-0.909	22.503	1.00	0.00



ATOM	1979	CE2	TYR	129	-12.272	-2.930	23.110	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.753	-1.699	23.452	1.00	0.00
ATOM	1981	OH	TYR	129	-11.855	-1.250	24.747	1.00	0.00
ATOM	1984	H	TYR	129	-12.121	-4.135	17.196	1.00	0.00
ATOM	1985	HA	TYR	129	-13.593	-2.712	19.124	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.587	-2.668	18.971	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.449	-4.139	19.398	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.583	-4.336	21.533	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.588	-0.739	20.452	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.745	-3.551	23.857	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.742	0.053	22.771	1.00	0.00
ATOM	1992	HH	TYR	129	-12.178	-1.974	25.314	1.00	0.00
ATOM	1993	N	LEU	130	-11.745	-0.954	17.093	1.00	0.00
ATOM	1994	CA	LEU	130	-11.442	0.380	16.606	1.00	0.00
ATOM	1999	C	LEU	130	-12.667	1.073	16.021	1.00	0.00
ATOM	2000	O	LEU	130	-12.996	2.186	16.413	1.00	0.00
ATOM	1995	CB	LEU	130	-10.335	0.321	15.561	1.00	0.00
ATOM	1996	CG	LEU	130	-8.999	0.913	16.006	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.905	-0.140	15.957	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.634	2.108	15.141	1.00	0.00
ATOM	2001	H	LEU	130	-11.376	-1.738	16.621	1.00	0.00
ATOM	2002	HA	LEU	130	-11.087	0.961	17.446	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.671	0.865	14.694	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.177	-0.712	15.287	1.00	0.00
ATOM	2005	HG	LEU	130	-9.087	1.254	17.028	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.254	-0.024	16.811	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.332	-0.022	15.049	1.00	0.00
ATOM	2008	3HD1	LEU	130	-8.350	-1.124	15.977	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.561	2.227	15.127	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.090	2.998	15.547	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.992	1.947	14.134	1.00	0.00
ATOM	2012	N	GLU	131	-13.326	0.428	15.072	1.00	0.00
ATOM	2013	CA	GLU	131	-14.499	1.016	14.428	1.00	0.00
ATOM	2019	C	GLU	131	-15.619	1.299	15.427	1.00	0.00
ATOM	2020	O	GLU	131	-16.338	2.292	15.308	1.00	0.00
ATOM	2014	CB	GLU	131	-15.012	0.094	13.327	1.00	0.00
ATOM	2015	CG	GLU	131	-14.045	-0.059	12.167	1.00	0.00
ATOM	2016	CD	GLU	131	-14.746	-0.127	10.828	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.974	-0.367	10.803	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.071	0.059	9.795	1.00	0.00
ATOM	2021	H	GLU	131	-13.012	-0.460	14.779	1.00	0.00
ATOM	2022	HA	GLU	131	-14.194	1.951	13.984	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.941	0.489	12.944	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.193	-0.885	13.749	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.477	-0.967	12.306	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.373	0.786	12.161	1.00	0.00
ATOM	2027	N	THR	132	-15.777	0.412	16.393	1.00	0.00
ATOM	2028	CA	THR	132	-16.831	0.554	17.386	1.00	0.00
ATOM	2032	C	THR	132	-16.545	1.639	18.432	1.00	0.00
ATOM	2033	O	THR	132	-17.471	2.306	18.892	1.00	0.00
ATOM	2029	CB	THR	132	-17.092	-0.788	18.102	1.00	0.00
ATOM	2030	OG1	THR	132	-17.156	-1.848	17.140	1.00	0.00
ATOM	2031	CG2	THR	132	-18.393	-0.748	18.892	1.00	0.00
ATOM	2034	H	THR	132	-15.187	-0.370	16.425	1.00	0.00
ATOM	2035	HA	THR	132	-17.735	0.822	16.858	1.00	0.00
ATOM	2036	HB	THR	132	-16.277	-0.980	18.785	1.00	0.00
ATOM	2037	HG1	THR	132	-16.262	-2.110	16.883	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.631	0.276	19.143	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.281	-1.324	19.797	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.191	-1.167	18.295	1.00	0.00
ATOM	2041	N	ARG	133	-15.287	1.810	18.845	1.00	0.00
ATOM	2042	CA	ARG	133	-14.994	2.810	19.878	1.00	0.00
ATOM	2050	C	ARG	133	-13.841	3.756	19.533	1.00	0.00
ATOM	2051	O	ARG	133	-13.926	4.949	19.823	1.00	0.00
ATOM	2043	CB	ARG	133	-14.701	2.130	21.226	1.00	0.00
ATOM	2044	CG	ARG	133	-15.335	0.755	21.399	1.00	0.00
ATOM	2045	CD	ARG	133	-15.382	0.341	22.863	1.00	0.00
ATOM	2046	NE	ARG	133	-16.091	-0.924	23.055	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.730	-1.858	23.936	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.705	-1.648	24.751	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.405	-2.998	24.008	1.00	0.00
ATOM	2052	H	ARG	133	-14.569	1.248	18.484	1.00	0.00
ATOM	2053	HA	ARG	133	-15.881	3.413	19.991	1.00	0.00



ATOM	2054	1HB	ARG	133	-15.064	2.770	22.018	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.633	2.021	21.331	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.754	0.030	20.849	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.342	0.781	21.010	1.00	0.00
ATOM	2058	1HD	ARG	133	-15.886	1.114	23.427	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.371	0.234	23.227	1.00	0.00
ATOM	2060	HE	ARG	133	-16.883	-1.088	22.485	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.200	-0.785	24.713	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.417	-2.362	25.409	1.00	0.00
ATOM	2063	1HH2	ARG	133	-17.187	-3.164	23.399	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.135	-3.705	24.677	1.00	0.00
ATOM	2065	N	LEU	134	-12.760	3.247	18.954	1.00	0.00
ATOM	2066	CA	LEU	134	-11.612	4.099	18.634	1.00	0.00
ATOM	2071	C	LEU	134	-11.985	5.209	17.657	1.00	0.00
ATOM	2072	O	LEU	134	-11.668	6.375	17.891	1.00	0.00
ATOM	2067	CB	LEU	134	-10.462	3.269	18.073	1.00	0.00
ATOM	2068	CG	LEU	134	-9.284	3.055	19.025	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.563	4.369	19.291	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.756	2.426	20.328	1.00	0.00
ATOM	2073	H	LEU	134	-12.720	2.285	18.753	1.00	0.00
ATOM	2074	HA	LEU	134	-11.287	4.557	19.556	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.092	3.757	17.185	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.851	2.301	17.796	1.00	0.00
ATOM	2077	HG	LEU	134	-8.583	2.376	18.563	1.00	0.00
ATOM	2078	1HD1	LEU	134	-9.221	5.195	19.063	1.00	0.00
ATOM	2079	2HD1	LEU	134	-7.683	4.429	18.667	1.00	0.00
ATOM	2080	3HD1	LEU	134	-8.271	4.419	20.330	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.895	3.197	21.071	1.00	0.00
ATOM	2082	2HD2	LEU	134	-9.015	1.721	20.676	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.692	1.914	20.162	1.00	0.00
ATOM	2084	N	ALA	135	-12.660	4.842	16.568	1.00	0.00
ATOM	2085	CA	ALA	135	-13.083	5.802	15.558	1.00	0.00
ATOM	2087	C	ALA	135	-13.872	6.944	16.178	1.00	0.00
ATOM	2088	O	ALA	135	-13.747	8.090	15.747	1.00	0.00
ATOM	2086	CB	ALA	135	-13.905	5.107	14.481	1.00	0.00
ATOM	2089	H	ALA	135	-12.878	3.893	16.439	1.00	0.00
ATOM	2090	HA	ALA	135	-12.196	6.210	15.094	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.269	4.871	13.641	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.701	5.761	14.158	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.325	4.198	14.882	1.00	0.00
ATOM	2094	N	ASP	136	-14.667	6.641	17.202	1.00	0.00
ATOM	2095	CA	ASP	136	-15.443	7.673	17.871	1.00	0.00
ATOM	2100	C	ASP	136	-14.520	8.668	18.543	1.00	0.00
ATOM	2101	O	ASP	136	-14.592	9.861	18.249	1.00	0.00
ATOM	2096	CB	ASP	136	-16.410	7.073	18.888	1.00	0.00
ATOM	2097	CG	ASP	136	-17.703	7.856	18.965	1.00	0.00
ATOM	2098	OD1	ASP	136	-17.664	9.097	18.807	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.765	7.235	19.172	1.00	0.00
ATOM	2102	H	ASP	136	-14.718	5.712	17.521	1.00	0.00
ATOM	2103	HA	ASP	136	-16.008	8.200	17.115	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.946	7.078	19.864	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.639	6.056	18.605	1.00	0.00
ATOM	2106	N	TRP	137	-13.631	8.179	19.414	1.00	0.00
ATOM	2107	CA	TRP	137	-12.676	9.047	20.088	1.00	0.00
ATOM	2118	C	TRP	137	-11.906	9.864	19.059	1.00	0.00
ATOM	2119	O	TRP	137	-11.759	11.082	19.192	1.00	0.00
ATOM	2108	CB	TRP	137	-11.691	8.212	20.928	1.00	0.00
ATOM	2109	CG	TRP	137	-10.573	9.023	21.527	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.508	9.502	22.799	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.367	9.452	20.878	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.349	10.217	22.977	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.633	10.199	21.812	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.839	9.279	19.596	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.405	10.770	21.499	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.623	9.847	19.289	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.917	10.586	20.237	1.00	0.00
ATOM	2120	H	TRP	137	-13.602	7.211	19.590	1.00	0.00
ATOM	2121	HA	TRP	137	-13.222	9.716	20.735	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.253	7.448	20.301	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.229	7.741	21.736	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.264	9.334	23.546	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.080	10.668	23.803	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.372	8.710	18.844	1.00	0.00



ATOM	2127	HZ2	TRP	137	-6.843	11.337	22.217	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.203	9.722	18.301	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.965	11.012	19.956	1.00	0.00
ATOM	2130	N	ILE	138	-11.407	9.170	18.042	1.00	0.00
ATOM	2131	CA	ILE	138	-10.624	9.784	16.983	1.00	0.00
ATOM	2136	C	ILE	138	-11.384	10.917	16.304	1.00	0.00
ATOM	2137	O	ILE	138	-10.842	12.007	16.115	1.00	0.00
ATOM	2132	CB	ILE	138	-10.184	8.727	15.936	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.969	7.949	16.447	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.864	9.370	14.594	1.00	0.00
ATOM	2135	CD1	ILE	138	-8.977	6.488	16.060	1.00	0.00
ATOM	2138	H	ILE	138	-11.559	8.197	18.016	1.00	0.00
ATOM	2139	HA	ILE	138	-9.733	10.193	17.436	1.00	0.00
ATOM	2140	HB	ILE	138	-11.002	8.038	15.789	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.942	8.007	17.526	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.069	8.392	16.047	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.716	8.599	13.850	1.00	0.00
ATOM	2144	2HG2	ILE	138	-8.966	9.961	14.684	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.685	10.004	14.296	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.940	6.401	14.985	1.00	0.00
ATOM	2147	2HD1	ILE	138	-9.881	6.024	16.428	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.118	5.996	16.491	1.00	0.00
ATOM	2149	N	HIS	139	-12.632	10.661	15.938	1.00	0.00
ATOM	2150	CA	HIS	139	-13.445	11.669	15.266	1.00	0.00
ATOM	2157	C	HIS	139	-13.719	12.876	16.159	1.00	0.00
ATOM	2158	O	HIS	139	-13.760	14.006	15.673	1.00	0.00
ATOM	2151	CB	HIS	139	-14.759	11.067	14.762	1.00	0.00
ATOM	2152	CG	HIS	139	-14.635	10.445	13.403	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.737	11.163	12.234	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.400	9.166	13.031	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.569	10.355	11.205	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.361	9.136	11.659	1.00	0.00
ATOM	2159	H	HIS	139	-13.015	9.768	16.115	1.00	0.00
ATOM	2160	HA	HIS	139	-12.881	12.008	14.410	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.507	11.844	14.708	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.087	10.302	15.450	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.917	12.135	12.168	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.264	8.322	13.695	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.585	10.644	10.166	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.447	8.316	11.113	1.00	0.00
ATOM	2167	N	SER	140	-13.907	12.651	17.455	1.00	0.00
ATOM	2168	CA	SER	140	-14.180	13.756	18.372	1.00	0.00
ATOM	2171	C	SER	140	-12.899	14.487	18.784	1.00	0.00
ATOM	2172	O	SER	140	-12.954	15.587	19.334	1.00	0.00
ATOM	2169	CB	SER	140	-14.917	13.252	19.617	1.00	0.00
ATOM	2170	OG	SER	140	-14.540	11.926	19.941	1.00	0.00
ATOM	2173	H	SER	140	-13.876	11.726	17.801	1.00	0.00
ATOM	2174	HA	SER	140	-14.817	14.457	17.853	1.00	0.00
ATOM	2175	1HB	SER	140	-15.981	13.273	19.433	1.00	0.00
ATOM	2176	2HB	SER	140	-14.685	13.892	20.454	1.00	0.00
ATOM	2177	HG	SER	140	-13.591	11.892	20.103	1.00	0.00
ATOM	2178	N	SER	141	-11.748	13.874	18.534	1.00	0.00
ATOM	2179	CA	SER	141	-10.475	14.481	18.901	1.00	0.00
ATOM	2182	C	SER	141	-9.964	15.418	17.812	1.00	0.00
ATOM	2183	O	SER	141	-9.693	16.590	18.066	1.00	0.00
ATOM	2180	CB	SER	141	-9.430	13.404	19.198	1.00	0.00
ATOM	2181	OG	SER	141	-8.858	13.587	20.481	1.00	0.00
ATOM	2184	H	SER	141	-11.756	12.989	18.108	1.00	0.00
ATOM	2185	HA	SER	141	-10.637	15.057	19.789	1.00	0.00
ATOM	2186	1HB	SER	141	-8.647	13.454	18.456	1.00	0.00
ATOM	2187	2HB	SER	141	-9.899	12.432	19.162	1.00	0.00
ATOM	2188	HG	SER	141	-8.087	14.161	20.406	1.00	0.00
ATOM	2189	N	GLY	142	-9.833	14.893	16.609	1.00	0.00
ATOM	2190	CA	GLY	142	-9.346	15.686	15.497	1.00	0.00
ATOM	2191	C	GLY	142	-9.378	14.902	14.213	1.00	0.00
ATOM	2192	O	GLY	142	-9.207	15.448	13.125	1.00	0.00
ATOM	2193	H	GLY	142	-10.067	13.954	16.473	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.329	15.989	15.699	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.958	16.564	15.388	1.00	0.00
ATOM	2196	N	GLY	143	-9.612	13.609	14.344	1.00	0.00
ATOM	2197	CA	GLY	143	-9.676	12.751	13.189	1.00	0.00
ATOM	2198	C	GLY	143	-8.337	12.183	12.814	1.00	0.00
ATOM	2199	O	GLY	143	-7.305	12.614	13.325	1.00	0.00



ATOM	2200	H	GLY	143	-9.750	13.234	15.244	1.00	0.00
ATOM	2201	1HA	GLY	143	-10.057	13.315	12.356	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.343	11.941	13.394	1.00	0.00
ATOM	2203	N	TRP	144	-8.357	11.221	11.907	1.00	0.00
ATOM	2204	CA	TRP	144	-7.138	10.588	11.438	1.00	0.00
ATOM	2215	C	TRP	144	-6.235	11.627	10.795	1.00	0.00
ATOM	2216	O	TRP	144	-5.015	11.522	10.855	1.00	0.00
ATOM	2205	CB	TRP	144	-7.480	9.474	10.446	1.00	0.00
ATOM	2206	CG	TRP	144	-8.227	8.333	11.077	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.585	8.154	11.125	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.653	7.215	11.760	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.884	6.992	11.802	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.714	6.396	12.194	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.341	6.825	12.044	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.501	5.214	12.896	1.00	0.00
ATOM	2213	CZ3	TRP	144	-6.134	5.650	12.741	1.00	0.00
ATOM	2214	CH2	TRP	144	-7.208	4.857	13.158	1.00	0.00
ATOM	2217	H	TRP	144	-9.214	10.932	11.534	1.00	0.00
ATOM	2218	HA	TRP	144	-6.627	10.165	12.289	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.565	9.085	10.025	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.092	9.881	9.656	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.304	8.836	10.699	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.790	6.641	11.971	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.498	7.423	11.730	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.318	4.589	13.224	1.00	0.00
ATOM	2225	HZ3	TRP	144	-5.122	5.327	12.966	1.00	0.00
ATOM	2226	HM2	TRP	144	-6.997	3.945	13.700	1.00	0.00
ATOM	2227	N	ALA	145	-6.860	12.647	10.210	1.00	0.00
ATOM	2228	CA	ALA	145	-6.137	13.736	9.570	1.00	0.00
ATOM	2230	C	ALA	145	-5.285	14.498	10.580	1.00	0.00
ATOM	2231	O	ALA	145	-4.204	14.983	10.241	1.00	0.00
ATOM	2229	CB	ALA	145	-7.108	14.681	8.878	1.00	0.00
ATOM	2232	H	ALA	145	-7.838	12.673	10.224	1.00	0.00
ATOM	2233	HA	ALA	145	-5.491	13.309	8.818	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.884	14.108	8.391	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.577	15.267	8.142	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.553	15.340	9.609	1.00	0.00
ATOM	2237	N	GLU	146	-5.760	14.588	11.826	1.00	0.00
ATOM	2238	CA	GLU	146	-5.002	15.281	12.866	1.00	0.00
ATOM	2244	C	GLU	146	-3.704	14.521	13.126	1.00	0.00
ATOM	2245	O	GLU	146	-2.632	15.108	13.269	1.00	0.00
ATOM	2239	CB	GLU	146	-5.830	15.417	14.157	1.00	0.00
ATOM	2240	CG	GLU	146	-5.018	15.276	15.438	1.00	0.00
ATOM	2241	CD	GLU	146	-5.482	16.206	16.538	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.496	17.437	16.314	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.830	15.710	17.632	1.00	0.00
ATOM	2246	H	GLU	146	-6.626	14.167	12.054	1.00	0.00
ATOM	2247	HA	GLU	146	-4.758	16.267	12.494	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.605	14.663	14.161	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.295	16.389	14.167	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.983	15.491	15.216	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.104	14.259	15.791	1.00	0.00
ATOM	2252	N	PHE	147	-3.822	13.205	13.150	1.00	0.00
ATOM	2253	CA	PHE	147	-2.685	12.319	13.362	1.00	0.00
ATOM	2261	C	PHE	147	-1.693	12.431	12.205	1.00	0.00
ATOM	2262	O	PHE	147	-0.479	12.455	12.424	1.00	0.00
ATOM	2254	CB	PHE	147	-3.196	10.882	13.518	1.00	0.00
ATOM	2255	CG	PHE	147	-2.143	9.871	13.865	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.054	10.212	14.650	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.248	8.571	13.398	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.090	9.277	14.959	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.288	7.632	13.707	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.208	7.985	14.487	1.00	0.00
ATOM	2263	H	PHE	147	-4.707	12.812	13.004	1.00	0.00
ATOM	2264	HA	PHE	147	-2.183	12.623	14.274	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.656	10.575	12.589	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.939	10.859	14.300	1.00	0.00
ATOM	2267	HD1	PHE	147	-0.963	11.224	15.018	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.095	8.295	12.788	1.00	0.00
ATOM	2269	HE1	PHE	147	0.756	9.554	15.571	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.382	6.621	13.337	1.00	0.00
ATOM	2271	HZ	PHE	147	0.549	7.251	14.725	1.00	0.00
ATOM	2272	N	THR	148	-2.205	12.515	10.981	1.00	0.00



ATOM	2273	CA	THR	148	-1.347	12.644	9.806	1.00	0.00
ATOM	2277	C	THR	148	-0.590	13.969	9.826	1.00	0.00
ATOM	2278	O	THR	148	0.490	14.087	9.258	1.00	0.00
ATOM	2274	CB	THR	148	-2.153	12.540	8.500	1.00	0.00
ATOM	2275	OG1	THR	148	-3.425	11.940	8.763	1.00	0.00
ATOM	2276	CG2	THR	148	-1.402	11.715	7.465	1.00	0.00
ATOM	2279	H	THR	148	-3.185	12.497	10.861	1.00	0.00
ATOM	2280	HA	THR	148	-0.632	11.834	9.828	1.00	0.00
ATOM	2281	HB	THR	148	-2.305	13.534	8.106	1.00	0.00
ATOM	2282	HG1	THR	148	-3.793	11.587	7.948	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.341	11.877	7.577	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.710	12.014	6.474	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.624	10.668	7.610	1.00	0.00
ATOM	2286	N	ALA	149	-1.155	14.961	10.492	1.00	0.00
ATOM	2287	CA	ALA	149	-0.515	16.262	10.595	1.00	0.00
ATOM	2289	C	ALA	149	0.433	16.291	11.783	1.00	0.00
ATOM	2290	O	ALA	149	1.424	17.018	11.785	1.00	0.00
ATOM	2288	CB	ALA	149	-1.559	17.364	10.711	1.00	0.00
ATOM	2291	H	ALA	149	-2.016	14.812	10.937	1.00	0.00
ATOM	2292	HA	ALA	149	0.056	16.424	9.691	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.118	18.229	11.184	1.00	0.00
ATOM	2294	2HB	ALA	149	-2.388	17.011	11.306	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.910	17.632	9.726	1.00	0.00
ATOM	2296	N	LEU	150	0.109	15.496	12.796	1.00	0.00
ATOM	2297	CA	LEU	150	0.910	15.419	14.007	1.00	0.00
ATOM	2302	C	LEU	150	2.309	14.901	13.713	1.00	0.00
ATOM	2303	O	LEU	150	3.302	15.506	14.117	1.00	0.00
ATOM	2298	CB	LEU	150	0.238	14.509	15.037	1.00	0.00
ATOM	2299	CG	LEU	150	-0.213	15.209	16.318	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.655	14.860	16.641	1.00	0.00
ATOM	2301	CD2	LEU	150	0.698	14.834	17.477	1.00	0.00
ATOM	2304	H	LEU	150	-0.704	14.950	12.729	1.00	0.00
ATOM	2305	HA	LEU	150	0.988	16.415	14.418	1.00	0.00
ATOM	2306	1HB	LEU	150	0.933	13.731	15.306	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.623	14.050	14.574	1.00	0.00
ATOM	2308	HG	LEU	150	-0.153	16.276	16.176	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.229	14.815	15.727	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.070	15.617	17.291	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.692	13.900	17.136	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.447	15.602	17.608	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.182	13.892	17.264	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.114	14.742	18.379	1.00	0.00
ATOM	2315	N	TYR	151	2.389	13.771	13.028	1.00	0.00
ATOM	2316	CA	TYR	151	3.689	13.189	12.719	1.00	0.00
ATOM	2325	C	TYR	151	3.805	12.783	11.263	1.00	0.00
ATOM	2326	O	TYR	151	4.488	11.815	10.931	1.00	0.00
ATOM	2317	CB	TYR	151	3.960	11.990	13.616	1.00	0.00
ATOM	2318	CG	TYR	151	4.945	12.283	14.720	1.00	0.00
ATOM	2319	CD1	TYR	151	4.585	13.076	15.801	1.00	0.00
ATOM	2320	CD2	TYR	151	6.234	11.767	14.684	1.00	0.00
ATOM	2321	CE1	TYR	151	5.478	13.344	16.819	1.00	0.00
ATOM	2322	CE2	TYR	151	7.135	12.032	15.697	1.00	0.00
ATOM	2323	CZ	TYR	151	6.754	12.820	16.762	1.00	0.00
ATOM	2324	OH	TYR	151	7.651	13.078	17.772	1.00	0.00
ATOM	2327	H	TYR	151	1.560	13.318	12.741	1.00	0.00
ATOM	2328	HA	TYR	151	4.436	13.941	12.920	1.00	0.00
ATOM	2329	1HB	TYR	151	4.356	11.183	13.019	1.00	0.00
ATOM	2330	2HB	TYR	151	3.032	11.679	14.069	1.00	0.00
ATOM	2331	HD1	TYR	151	3.587	13.484	15.842	1.00	0.00
ATOM	2332	HD2	TYR	151	6.530	11.151	13.848	1.00	0.00
ATOM	2333	HE1	TYR	151	5.173	13.962	17.653	1.00	0.00
ATOM	2334	HE2	TYR	151	8.132	11.620	15.653	1.00	0.00
ATOM	2335	HH	TYR	151	7.997	12.240	18.111	1.00	0.00
ATOM	2336	N	GLY	152	3.152	13.529	10.397	1.00	0.00
ATOM	2337	CA	GLY	152	3.219	13.231	8.981	1.00	0.00
ATOM	2338	C	GLY	152	4.186	14.142	8.259	1.00	0.00
ATOM	2339	O	GLY	152	5.330	14.307	8.684	1.00	0.00
ATOM	2340	H	GLY	152	2.627	14.295	10.719	1.00	0.00
ATOM	2341	1HA	GLY	152	2.237	13.351	8.550	1.00	0.00
ATOM	2342	2HA	GLY	152	3.538	12.207	8.852	1.00	0.00
ATOM	2343	N	ASP	153	3.726	14.738	7.170	1.00	0.00
ATOM	2344	CA	ASP	153	4.554	15.645	6.383	1.00	0.00
ATOM	2349	C	ASP	153	4.883	16.899	7.180	1.00	0.00



ATOM	2350	O	ASP	153	6.043	17.287	7.309	1.00	0.00
ATOM	2345	CB	ASP	153	3.838	16.034	5.089	1.00	0.00
ATOM	2346	CG	ASP	153	4.700	15.813	3.865	1.00	0.00
ATOM	2347	OD1	ASP	153	5.793	16.407	3.784	1.00	0.00
ATOM	2348	OD2	ASP	153	4.287	15.034	2.980	1.00	0.00
ATOM	2351	H	ASP	153	2.804	14.566	6.886	1.00	0.00
ATOM	2352	HA	ASP	153	5.472	15.132	6.137	1.00	0.00
ATOM	2353	1HB	ASP	153	3.569	17.078	5.135	1.00	0.00
ATOM	2354	2HB	ASP	153	2.942	15.440	4.988	1.00	0.00
ATOM	2355	N	GLY	154	3.849	17.525	7.722	1.00	0.00
ATOM	2356	CA	GLY	154	4.035	18.726	8.506	1.00	0.00
ATOM	2357	C	GLY	154	4.170	18.434	9.985	1.00	0.00
ATOM	2358	O	GLY	154	3.424	18.970	10.800	1.00	0.00
ATOM	2359	H	GLY	154	2.948	17.165	7.591	1.00	0.00
ATOM	2360	1HA	GLY	154	3.186	19.378	8.353	1.00	0.00
ATOM	2361	2HA	GLY	154	4.928	19.230	8.166	1.00	0.00
ATOM	2362	N	ALA	155	5.129	17.587	10.330	1.00	0.00
ATOM	2363	CA	ALA	155	5.377	17.221	11.716	1.00	0.00
ATOM	2365	C	ALA	155	6.200	18.301	12.401	1.00	0.00
ATOM	2366	O	ALA	155	7.398	18.133	12.642	1.00	0.00
ATOM	2364	CB	ALA	155	6.082	15.875	11.792	1.00	0.00
ATOM	2367	H	ALA	155	5.693	17.205	9.633	1.00	0.00
ATOM	2368	HA	ALA	155	4.422	17.135	12.216	1.00	0.00
ATOM	2369	1HB	ALA	155	7.142	16.016	11.635	1.00	0.00
ATOM	2370	2HB	ALA	155	5.688	15.218	11.031	1.00	0.00
ATOM	2371	3HB	ALA	155	5.918	15.438	12.766	1.00	0.00
ATOM	2372	N	LEU	156	5.548	19.417	12.689	1.00	0.00
ATOM	2373	CA	LEU	156	6.181	20.552	13.328	1.00	0.00
ATOM	2378	C	LEU	156	6.668	20.200	14.730	1.00	0.00
ATOM	2379	O	LEU	156	6.229	19.216	15.327	1.00	0.00
ATOM	2374	CB	LEU	156	5.207	21.730	13.384	1.00	0.00
ATOM	2375	CG	LEU	156	3.817	21.420	13.949	1.00	0.00
ATOM	2376	CD1	LEU	156	3.349	22.549	14.847	1.00	0.00
ATOM	2377	CD2	LEU	156	2.811	21.195	12.832	1.00	0.00
ATOM	2380	H	LEU	156	4.604	19.483	12.450	1.00	0.00
ATOM	2381	HA	LEU	156	7.033	20.834	12.727	1.00	0.00
ATOM	2382	1HB	LEU	156	5.088	22.116	12.386	1.00	0.00
ATOM	2383	2HB	LEU	156	5.650	22.494	13.992	1.00	0.00
ATOM	2384	EG	LEU	156	3.868	20.518	14.542	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.078	22.150	15.813	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.489	23.029	14.403	1.00	0.00
ATOM	2387	3HD1	LEU	156	4.145	23.270	14.965	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.901	20.786	13.244	1.00	0.00
ATOM	2389	2HD2	LEU	156	3.222	20.504	12.110	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.595	22.136	12.346	1.00	0.00
ATOM	2391	N	GLU	157	7.583	21.011	15.241	1.00	0.00
ATOM	2392	CA	GLU	157	8.160	20.800	16.565	1.00	0.00
ATOM	2398	C	GLU	157	7.098	20.808	17.661	1.00	0.00
ATOM	2399	O	GLU	157	7.242	20.128	18.678	1.00	0.00
ATOM	2393	CB	GLU	157	9.209	21.869	16.853	1.00	0.00
ATOM	2394	CG	GLU	157	10.246	22.024	15.752	1.00	0.00
ATOM	2395	CD	GLU	157	11.670	21.868	16.252	1.00	0.00
ATOM	2396	OE1	GLU	157	11.865	21.617	17.460	1.00	0.00
ATOM	2397	OE2	GLU	157	12.604	22.006	15.438	1.00	0.00
ATOM	2400	H	GLU	157	7.893	21.777	14.706	1.00	0.00
ATOM	2401	HA	GLU	157	8.644	19.841	16.562	1.00	0.00
ATOM	2402	1HB	GLU	157	9.720	21.613	17.765	1.00	0.00
ATOM	2403	2HB	GLU	157	8.710	22.811	16.984	1.00	0.00
ATOM	2404	1HG	GLU	157	10.141	23.006	15.314	1.00	0.00
ATOM	2405	2HG	GLU	157	10.064	21.275	14.996	1.00	0.00
ATOM	2406	N	GLU	158	6.030	21.564	17.449	1.00	0.00
ATOM	2407	CA	GLU	158	4.959	21.640	18.434	1.00	0.00
ATOM	2413	C	GLU	158	4.152	20.351	18.443	1.00	0.00
ATOM	2414	O	GLU	158	3.725	19.885	19.494	1.00	0.00
ATOM	2408	CB	GLU	158	4.054	22.840	18.161	1.00	0.00
ATOM	2409	CG	GLU	158	4.754	24.178	18.344	1.00	0.00
ATOM	2410	CD	GLU	158	5.086	24.472	19.794	1.00	0.00
ATOM	2411	OE1	GLU	158	6.119	23.970	20.287	1.00	0.00
ATOM	2412	OE2	GLU	158	4.318	25.213	20.445	1.00	0.00
ATOM	2415	H	GLU	158	5.959	22.075	16.615	1.00	0.00
ATOM	2416	HA	GLU	158	5.418	21.764	19.405	1.00	0.00
ATOM	2417	1HB	GLU	158	3.211	22.803	18.835	1.00	0.00
ATOM	2418	2HB	GLU	158	3.696	22.781	17.144	1.00	0.00



ATOM	2419	1HG	GLU	158	4.108	24.960	17.972	1.00	0.00
ATOM	2420	2HG	GLU	158	5.672	24.170	17.775	1.00	0.00
ATOM	2421	N	ALA	159	3.974	19.765	17.267	1.00	0.00
ATOM	2422	CA	ALA	159	3.241	18.514	17.146	1.00	0.00
ATOM	2424	C	ALA	159	4.053	17.373	17.749	1.00	0.00
ATOM	2425	O	ALA	159	3.502	16.449	18.349	1.00	0.00
ATOM	2423	CB	ALA	159	2.909	18.233	15.689	1.00	0.00
ATOM	2426	H	ALA	159	4.358	20.171	16.466	1.00	0.00
ATOM	2427	HA	ALA	159	2.314	18.614	17.693	1.00	0.00
ATOM	2428	1HB	ALA	159	1.992	17.666	15.631	1.00	0.00
ATOM	2429	2HB	ALA	159	3.711	17.665	15.240	1.00	0.00
ATOM	2430	3HB	ALA	159	2.789	19.166	15.159	1.00	0.00
ATOM	2431	N	ARG	160	5.371	17.460	17.599	1.00	0.00
ATOM	2432	CA	ARG	160	6.278	16.452	18.138	1.00	0.00
ATOM	2440	C	ARG	160	6.184	16.412	19.658	1.00	0.00
ATOM	2441	O	ARG	160	5.914	15.365	20.248	1.00	0.00
ATOM	2433	CB	ARG	160	7.721	16.746	17.722	1.00	0.00
ATOM	2434	CG	ARG	160	7.996	16.501	16.250	1.00	0.00
ATOM	2435	CD	ARG	160	9.100	17.411	15.738	1.00	0.00
ATOM	2436	NE	ARG	160	9.345	17.228	14.310	1.00	0.00
ATOM	2437	CZ	ARG	160	10.505	16.815	13.802	1.00	0.00
ATOM	2438	NH1	ARG	160	11.533	16.566	14.603	1.00	0.00
ATOM	2439	NH2	ARG	160	10.636	16.662	12.488	1.00	0.00
ATOM	2442	H	ARG	160	5.744	18.231	17.119	1.00	0.00
ATOM	2443	HA	ARG	160	5.984	15.492	17.742	1.00	0.00
ATOM	2444	1HB	ARG	160	8.383	16.119	18.299	1.00	0.00
ATOM	2445	2HB	ARG	160	7.941	17.781	17.939	1.00	0.00
ATOM	2446	1HG	ARG	160	7.095	16.692	15.686	1.00	0.00
ATOM	2447	2HG	ARG	160	8.298	15.473	16.114	1.00	0.00
ATOM	2448	1HD	ARG	160	10.009	17.192	16.281	1.00	0.00
ATOM	2449	2HD	ARG	160	8.815	18.437	15.916	1.00	0.00
ATOM	2450	HE	ARG	160	8.595	17.426	13.695	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.443	16.689	15.602	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.413	16.258	14.222	1.00	0.00
ATOM	2453	1HH2	ARG	160	9.867	16.860	11.878	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.504	16.338	12.102	1.00	0.00
ATOM	2455	N	ARG	161	6.392	17.565	20.291	1.00	0.00
ATOM	2456	CA	ARG	161	6.321	17.657	21.743	1.00	0.00
ATOM	2464	C	ARG	161	4.902	17.373	22.231	1.00	0.00
ATOM	2465	O	ARG	161	4.704	16.926	23.361	1.00	0.00
ATOM	2457	CB	ARG	161	6.810	19.024	22.235	1.00	0.00
ATOM	2458	CG	ARG	161	5.895	20.180	21.879	1.00	0.00
ATOM	2459	CD	ARG	161	6.529	21.515	22.232	1.00	0.00
ATOM	2460	NE	ARG	161	6.168	21.956	23.580	1.00	0.00
ATOM	2461	CZ	ARG	161	5.804	23.202	23.884	1.00	0.00
ATOM	2462	NH1	ARG	161	5.778	24.140	22.942	1.00	0.00
ATOM	2463	NH2	ARG	161	5.475	23.514	25.133	1.00	0.00
ATOM	2466	H	ARG	161	6.596	18.372	19.766	1.00	0.00
ATOM	2467	HA	ARG	161	6.972	16.896	22.144	1.00	0.00
ATOM	2468	1HB	ARG	161	7.782	19.217	21.803	1.00	0.00
ATOM	2469	2HB	ARG	161	6.908	18.990	23.309	1.00	0.00
ATOM	2470	1HG	ARG	161	4.971	20.072	22.424	1.00	0.00
ATOM	2471	2HG	ARG	161	5.697	20.154	20.818	1.00	0.00
ATOM	2472	1HD	ARG	161	6.196	22.257	21.521	1.00	0.00
ATOM	2473	2HD	ARG	161	7.602	21.417	22.172	1.00	0.00
ATOM	2474	HE	ARG	161	6.195	21.284	24.296	1.00	0.00
ATOM	2475	1HH1	ARG	161	6.027	23.913	21.984	1.00	0.00
ATOM	2476	2HH1	ARG	161	5.502	25.080	23.168	1.00	0.00
ATOM	2477	1HH2	ARG	161	5.501	22.810	25.859	1.00	0.00
ATOM	2478	2HH2	ARG	161	5.179	24.448	25.360	1.00	0.00
ATOM	2479	N	LEU	162	3.922	17.608	21.363	1.00	0.00
ATOM	2480	CA	LEU	162	2.530	17.351	21.701	1.00	0.00
ATOM	2485	C	LEU	162	2.296	15.854	21.831	1.00	0.00
ATOM	2486	O	LEU	162	1.638	15.405	22.762	1.00	0.00
ATOM	2481	CB	LEU	162	1.593	17.931	20.637	1.00	0.00
ATOM	2482	CG	LEU	162	0.442	18.783	21.174	1.00	0.00
ATOM	2483	CD1	LEU	162	0.144	19.932	20.224	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.800	17.929	21.386	1.00	0.00
ATOM	2487	H	LEU	162	4.143	17.947	20.471	1.00	0.00
ATOM	2488	HA	LEU	162	2.326	17.820	22.651	1.00	0.00
ATOM	2489	1HB	LEU	162	1.171	17.113	20.074	1.00	0.00
ATOM	2490	2HB	LEU	162	2.180	18.541	19.965	1.00	0.00
ATOM	2491	HG	LEU	162	0.726	19.204	22.127	1.00	0.00



ATOM	2492	1HD1	LEU	162	0.988	20.604	20.196	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.730	20.466	20.568	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.039	19.543	19.233	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.520	16.996	21.852	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.267	17.729	20.432	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.496	18.456	22.023	1.00	0.00
ATOM	2498	N	ARG	163	2.852	15.086	20.897	1.00	0.00
ATOM	2499	CA	ARG	163	2.709	13.635	20.920	1.00	0.00
ATOM	2507	C	ARG	163	3.520	13.036	22.064	1.00	0.00
ATOM	2508	O	ARG	163	3.108	12.049	22.675	1.00	0.00
ATOM	2500	CB	ARG	163	3.153	13.021	19.591	1.00	0.00
ATOM	2501	CG	ARG	163	2.639	11.603	19.378	1.00	0.00
ATOM	2502	CD	ARG	163	2.709	11.198	17.917	1.00	0.00
ATOM	2503	NE	ARG	163	3.897	10.391	17.628	1.00	0.00
ATOM	2504	C2	ARG	163	4.014	9.579	16.580	1.00	0.00
ATOM	2505	NH1	ARG	163	2.996	9.418	15.743	1.00	0.00
ATOM	2506	NH2	ARG	163	5.151	8.935	16.374	1.00	0.00
ATOM	2509	H	ARG	163	3.378	15.506	20.180	1.00	0.00
ATOM	2510	HA	ARG	163	1.666	13.410	21.080	1.00	0.00
ATOM	2511	1HB	ARG	163	4.232	12.999	19.557	1.00	0.00
ATOM	2512	2HB	ARG	163	2.788	13.639	18.782	1.00	0.00
ATOM	2513	1HG	ARG	163	1.612	11.551	19.709	1.00	0.00
ATOM	2514	2HG	ARG	163	3.242	10.922	19.959	1.00	0.00
ATOM	2515	1HD	ARG	163	2.740	12.093	17.311	1.00	0.00
ATOM	2516	2HD	ARG	163	1.826	10.629	17.668	1.00	0.00
ATOM	2517	HE	ARG	163	4.666	10.481	18.244	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.138	9.907	15.899	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.087	8.817	14.948	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.928	9.069	17.017	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.260	8.326	15.588	1.00	0.00
ATOM	2522	N	GLU	164	4.663	13.642	22.356	1.00	0.00
ATOM	2523	CA	GLU	164	5.516	13.166	23.435	1.00	0.00
ATOM	2529	C	GLU	164	4.853	13.426	24.783	1.00	0.00
ATOM	2530	O	GLU	164	4.787	12.536	25.635	1.00	0.00
ATOM	2524	CB	GLU	164	6.894	13.822	23.365	1.00	0.00
ATOM	2525	CG	GLU	164	7.879	13.035	22.516	1.00	0.00
ATOM	2526	CD	GLU	164	9.035	12.485	23.318	1.00	0.00
ATOM	2527	OE1	GLU	164	8.793	11.861	24.372	1.00	0.00
ATOM	2528	OE2	GLU	164	10.194	12.642	22.881	1.00	0.00
ATOM	2531	H	GLU	164	4.939	14.427	21.836	1.00	0.00
ATOM	2532	HA	GLU	164	5.633	12.099	23.311	1.00	0.00
ATOM	2533	1HB	GLU	164	7.295	13.906	24.363	1.00	0.00
ATOM	2534	2HB	GLU	164	6.790	14.811	22.940	1.00	0.00
ATOM	2535	1HG	GLU	164	8.269	13.680	21.743	1.00	0.00
ATOM	2536	2HG	GLU	164	7.359	12.203	22.062	1.00	0.00
ATOM	2537	N	GLY	165	4.318	14.631	24.960	1.00	0.00
ATOM	2538	CA	GLY	165	3.626	14.952	26.195	1.00	0.00
ATOM	2539	C	GLY	165	2.317	14.194	26.278	1.00	0.00
ATOM	2540	O	GLY	165	1.769	13.964	27.359	1.00	0.00
ATOM	2541	H	GLY	165	4.368	15.298	24.236	1.00	0.00
ATOM	2542	1HA	GLY	165	3.423	16.012	26.226	1.00	0.00
ATOM	2543	2HA	GLY	165	4.252	14.683	27.034	1.00	0.00
ATOM	2544	N	ASN	166	1.842	13.793	25.108	1.00	0.00
ATOM	2545	CA	ASN	166	0.611	13.034	24.961	1.00	0.00
ATOM	2550	C	ASN	166	0.743	11.675	25.630	1.00	0.00
ATOM	2551	O	ASN	166	0.064	11.387	26.618	1.00	0.00
ATOM	2546	CB	ASN	166	0.319	12.840	23.467	1.00	0.00
ATOM	2547	CG	ASN	166	-1.059	12.297	23.170	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.291	11.087	23.225	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.976	13.186	22.822	1.00	0.00
ATOM	2552	H	ASN	166	2.354	14.012	24.301	1.00	0.00
ATOM	2553	HA	ASN	166	-0.195	13.589	25.417	1.00	0.00
ATOM	2554	1HB	ASN	166	1.047	12.152	23.061	1.00	0.00
ATOM	2555	2HB	ASN	166	0.419	13.786	22.964	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.714	14.132	22.779	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.882	12.864	22.608	1.00	0.00
ATOM	2558	N	TRP	167	1.624	10.843	25.075	1.00	0.00
ATOM	2559	CA	TRP	167	1.848	9.501	25.589	1.00	0.00
ATOM	2570	C	TRP	167	2.350	9.519	27.025	1.00	0.00
ATOM	2571	O	TRP	167	2.087	8.588	27.779	1.00	0.00
ATOM	2560	CB	TRP	167	2.796	8.701	24.670	1.00	0.00
ATOM	2561	CG	TRP	167	4.251	9.089	24.740	1.00	0.00
ATOM	2562	CD1	TRP	167	4.931	9.874	23.854	1.00	0.00



ATOM	2563	CD2	TRP	167	5.208	8.681	25.726	1.00	0.00
ATOM	2564	NE1	TRP	167	6.245	9.994	24.240	1.00	0.00
ATOM	2565	CE2	TRP	167	6.440	9.272	25.385	1.00	0.00
ATOM	2566	CE3	TRP	167	5.140	7.884	26.870	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.592	9.086	26.145	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.284	7.700	27.623	1.00	0.00
ATOM	2569	CH2	TRP	167	7.495	8.299	27.258	1.00	0.00
ATOM	2572	H	TRP	167	2.128	11.141	24.289	1.00	0.00
ATOM	2573	HA	TRP	167	0.886	9.003	25.588	1.00	0.00
ATOM	2574	1HB	TRP	167	2.470	8.827	23.648	1.00	0.00
ATOM	2575	2HB	TRP	167	2.728	7.655	24.929	1.00	0.00
ATOM	2576	HD1	TRP	167	4.487	10.335	22.985	1.00	0.00
ATOM	2577	HE1	TRP	167	6.935	10.518	23.772	1.00	0.00
ATOM	2578	HE3	TRP	167	4.210	7.415	27.168	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.534	9.541	25.876	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.250	7.085	28.510	1.00	0.00
ATOM	2581	HH2	TRP	167	8.363	8.127	27.877	1.00	0.00
ATOM	2582	N	ALA	168	3.056	10.572	27.411	1.00	0.00
ATOM	2583	CA	ALA	168	3.565	10.674	28.773	1.00	0.00
ATOM	2585	C	ALA	168	2.427	10.554	29.781	1.00	0.00
ATOM	2586	O	ALA	168	2.557	9.896	30.813	1.00	0.00
ATOM	2584	CB	ALA	168	4.309	11.987	28.967	1.00	0.00
ATOM	2587	H	ALA	168	3.235	11.296	26.772	1.00	0.00
ATOM	2588	HA	ALA	168	4.261	9.863	28.931	1.00	0.00
ATOM	2589	1HB	ALA	168	4.588	12.091	30.004	1.00	0.00
ATOM	2590	2HB	ALA	168	3.668	12.809	28.681	1.00	0.00
ATOM	2591	3HB	ALA	168	5.197	11.991	28.352	1.00	0.00
ATOM	2592	N	SER	169	1.314	11.197	29.472	1.00	0.00
ATOM	2593	CA	SER	169	0.148	11.176	30.340	1.00	0.00
ATOM	2596	C	SER	169	-0.789	9.990	30.063	1.00	0.00
ATOM	2597	O	SER	169	-1.492	9.541	30.962	1.00	0.00
ATOM	2594	CB	SER	169	-0.615	12.494	30.194	1.00	0.00
ATOM	2595	OG	SER	169	0.254	13.539	29.774	1.00	0.00
ATOM	2598	H	SER	169	1.276	11.705	28.636	1.00	0.00
ATOM	2599	HA	SER	169	0.505	11.097	31.359	1.00	0.00
ATOM	2600	1HB	SER	169	-1.051	12.764	31.144	1.00	0.00
ATOM	2601	2HB	SER	169	-1.397	12.374	29.459	1.00	0.00
ATOM	2602	HG	SER	169	0.336	13.527	28.812	1.00	0.00
ATOM	2603	N	VAL	170	-0.838	9.503	28.823	1.00	0.00
ATOM	2604	CA	VAL	170	-1.758	8.404	28.495	1.00	0.00
ATOM	2608	C	VAL	170	-1.136	7.017	28.633	1.00	0.00
ATOM	2609	O	VAL	170	-1.812	6.067	29.021	1.00	0.00
ATOM	2605	CB	VAL	170	-2.361	8.533	27.079	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.396	9.645	27.037	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.288	8.756	26.030	1.00	0.00
ATOM	2610	H	VAL	170	-0.283	9.906	28.116	1.00	0.00
ATOM	2611	HA	VAL	170	-2.578	8.468	29.195	1.00	0.00
ATOM	2612	HB	VAL	170	-2.857	7.605	26.846	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.168	10.319	26.224	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.379	10.188	27.971	1.00	0.00
ATOM	2615	3HG1	VAL	170	-4.378	9.219	26.885	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.527	8.189	25.142	1.00	0.00
ATOM	2617	2HG2	VAL	170	-0.334	8.431	26.419	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.238	9.806	25.783	1.00	0.00
ATOM	2619	N	ARG	171	0.134	6.882	28.308	1.00	0.00
ATOM	2620	CA	ARG	171	0.794	5.589	28.396	1.00	0.00
ATOM	2628	C	ARG	171	0.979	5.180	29.851	1.00	0.00
ATOM	2629	O	ARG	171	0.903	3.999	30.187	1.00	0.00
ATOM	2621	CB	ARG	171	2.140	5.633	27.678	1.00	0.00
ATOM	2622	CG	ARG	171	2.486	4.357	26.934	1.00	0.00
ATOM	2623	CD	ARG	171	3.860	4.458	26.298	1.00	0.00
ATOM	2624	NE	ARG	171	4.914	4.581	27.306	1.00	0.00
ATOM	2625	CZ	ARG	171	6.183	4.218	27.121	1.00	0.00
ATOM	2626	NH1	ARG	171	6.579	3.713	25.957	1.00	0.00
ATOM	2627	NH2	ARG	171	7.058	4.369	28.103	1.00	0.00
ATOM	2630	H	ARG	171	0.642	7.664	27.994	1.00	0.00
ATOM	2631	HA	ARG	171	0.162	4.861	27.910	1.00	0.00
ATOM	2632	1HB	ARG	171	2.917	5.821	28.405	1.00	0.00
ATOM	2633	2HB	ARG	171	2.123	6.444	26.964	1.00	0.00
ATOM	2634	1HG	ARG	171	1.752	4.189	26.159	1.00	0.00
ATOM	2635	2HG	ARG	171	2.479	3.529	27.628	1.00	0.00
ATOM	2636	1HD	ARG	171	3.880	5.329	25.656	1.00	0.00
ATOM	2637	2HD	ARG	171	4.038	3.571	25.709	1.00	0.00



ATOM	2638	HE	ARG	171	4.655	4.965	28.183	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.927	3.602	25.208	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.537	3.441	25.827	1.00	0.00
ATOM	2641	1HK2	ARG	171	6.769	4.759	28.985	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.022	4.095	27.973	1.00	0.00
ATOM	2643	N	THR	172	1.216	6.166	30.703	1.00	0.00
ATOM	2644	CA	THR	172	1.415	5.928	32.124	1.00	0.00
ATOM	2648	C	THR	172	0.090	5.857	32.881	1.00	0.00
ATOM	2649	O	THR	172	0.045	5.409	34.026	1.00	0.00
ATOM	2645	CB	THR	172	2.310	7.019	32.731	1.00	0.00
ATOM	2646	OG1	THR	172	3.205	7.525	31.725	1.00	0.00
ATOM	2647	CG2	THR	172	3.113	6.484	33.905	1.00	0.00
ATOM	2650	H	THR	172	1.262	7.084	30.367	1.00	0.00
ATOM	2651	HA	THR	172	1.918	4.982	32.234	1.00	0.00
ATOM	2652	HB	THR	172	1.679	7.820	33.080	1.00	0.00
ATOM	2653	HG1	THR	172	2.936	8.426	31.480	1.00	0.00
ATOM	2654	1HG2	THR	172	2.783	5.483	34.137	1.00	0.00
ATOM	2655	2HG2	THR	172	2.962	7.123	34.762	1.00	0.00
ATOM	2656	3HG2	THR	172	4.161	6.468	33.647	1.00	0.00
ATOM	2657	N	VAL	173	-0.994	6.280	32.243	1.00	0.00
ATOM	2658	CA	VAL	173	-2.298	6.222	32.888	1.00	0.00
ATOM	2662	C	VAL	173	-2.927	4.846	32.667	1.00	0.00
ATOM	2663	O	VAL	173	-3.770	4.399	33.441	1.00	0.00
ATOM	2659	CB	VAL	173	-3.239	7.355	32.401	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.956	6.995	31.112	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.245	7.717	33.484	1.00	0.00
ATOM	2664	H	VAL	173	-0.918	6.624	31.327	1.00	0.00
ATOM	2665	HA	VAL	173	-2.139	6.352	33.949	1.00	0.00
ATOM	2666	HB	VAL	173	-2.632	8.225	32.208	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.263	7.059	30.285	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.773	7.682	30.951	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.340	5.988	31.183	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.245	7.669	33.075	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.049	8.717	33.840	1.00	0.00
ATOM	2672	3HG2	VAL	173	-4.158	7.019	34.302	1.00	0.00
ATOM	2673	N	LEU	174	-2.493	4.172	31.605	1.00	0.00
ATOM	2674	CA	LEU	174	-2.996	2.840	31.281	1.00	0.00
ATOM	2679	C	LEU	174	-1.864	1.822	31.248	1.00	0.00
ATOM	2680	O	LEU	174	-1.879	0.881	30.450	1.00	0.00
ATOM	2675	CB	LEU	174	-3.729	2.858	29.939	1.00	0.00
ATOM	2676	CG	LEU	174	-4.606	4.083	29.717	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.581	4.506	28.258	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.029	3.812	30.174	1.00	0.00
ATOM	2681	H	LEU	174	-1.811	4.580	31.032	1.00	0.00
ATOM	2682	HA	LEU	174	-3.692	2.556	32.054	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.352	1.980	29.878	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.994	2.815	29.147	1.00	0.00
ATOM	2685	HG	LEU	174	-4.213	4.898	30.307	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.051	5.473	28.155	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.117	3.780	27.663	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.558	4.565	27.918	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.061	3.789	31.253	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.357	2.861	29.784	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.681	4.594	29.811	1.00	0.00
ATOM	2692	N	THR	175	-0.877	2.012	32.111	1.00	0.00
ATOM	2693	CA	THR	175	0.270	1.110	32.180	1.00	0.00
ATOM	2697	C	THR	175	-0.136	-0.293	32.640	1.00	0.00
ATOM	2698	O	THR	175	0.603	-1.256	32.447	1.00	0.00
ATOM	2694	CB	THR	175	1.338	1.661	33.137	1.00	0.00
ATOM	2695	OG1	THR	175	0.781	2.731	33.908	1.00	0.00
ATOM	2696	CG2	THR	175	2.552	2.156	32.368	1.00	0.00
ATOM	2699	H	THR	175	-0.910	2.789	32.716	1.00	0.00
ATOM	2700	HA	THR	175	0.703	1.045	31.193	1.00	0.00
ATOM	2701	HB	THR	175	1.649	0.868	33.804	1.00	0.00
ATOM	2702	HG1	THR	175	1.148	2.707	34.803	1.00	0.00
ATOM	2703	1HG2	THR	175	2.982	1.339	31.808	1.00	0.00
ATOM	2704	2HG2	THR	175	3.284	2.543	33.061	1.00	0.00
ATOM	2705	3HG2	THR	175	2.252	2.938	31.687	1.00	0.00
ATOM	2706	N	GLY	176	-1.313	-0.399	33.248	1.00	0.00
ATOM	2707	CA	GLY	176	-1.795	-1.682	33.729	1.00	0.00
ATOM	2708	C	GLY	176	-2.302	-2.585	32.618	1.00	0.00
ATOM	2709	O	GLY	176	-2.661	-3.730	32.869	1.00	0.00
ATOM	2710	H	GLY	176	-1.859	0.405	33.373	1.00	0.00



ATOM	2711	1HA	GLY	176	-2.598	-1.508	34.430	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.989	-2.184	34.242	1.00	0.00
ATOM	2713	N	ALA	177	-2.330	-2.067	31.394	1.00	0.00
ATOM	2714	CA	ALA	177	-2.805	-2.825	30.232	1.00	0.00
ATOM	2716	C	ALA	177	-1.849	-3.952	29.838	1.00	0.00
ATOM	2717	O	ALA	177	-2.148	-4.740	28.945	1.00	0.00
ATOM	2715	CB	ALA	177	-3.010	-1.887	29.056	1.00	0.00
ATOM	2718	H	ALA	177	-2.030	-1.142	31.264	1.00	0.00
ATOM	2719	HA	ALA	177	-3.765	-3.256	30.481	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.842	-0.868	29.372	1.00	0.00
ATOM	2721	2HB	ALA	177	-4.020	-1.988	28.689	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.314	-2.140	28.270	1.00	0.00
ATOM	2723	N	VAL	178	-0.703	-4.035	30.499	1.00	0.00
ATOM	2724	CA	VAL	178	0.268	-5.079	30.193	1.00	0.00
ATOM	2728	C	VAL	178	-0.125	-6.402	30.850	1.00	0.00
ATOM	2729	O	VAL	178	0.568	-6.908	31.734	1.00	0.00
ATOM	2725	CB	VAL	178	1.700	-4.692	30.630	1.00	0.00
ATOM	2726	CG1	VAL	178	2.727	-5.557	29.911	1.00	0.00
ATOM	2727	CG2	VAL	178	1.967	-3.219	30.363	1.00	0.00
ATOM	2730	H	VAL	178	-0.508	-3.388	31.206	1.00	0.00
ATOM	2731	HA	VAL	178	0.272	-5.216	29.120	1.00	0.00
ATOM	2732	HB	VAL	178	1.792	-4.868	31.692	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.288	-5.968	29.015	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.039	-6.361	30.562	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.585	-4.954	29.649	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.129	-2.792	29.832	1.00	0.00
ATOM	2737	2HG2	VAL	178	2.862	-3.117	29.767	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.100	-2.702	31.302	1.00	0.00
ATOM	2739	N	ALA	179	-1.244	-6.956	30.405	1.00	0.00
ATOM	2740	CA	ALA	179	-1.744	-8.221	30.930	1.00	0.00
ATOM	2742	C	ALA	179	-1.056	-9.389	30.239	1.00	0.00
ATOM	2743	O	ALA	179	-1.193	-10.543	30.644	1.00	0.00
ATOM	2741	CB	ALA	179	-3.253	-8.321	30.733	1.00	0.00
ATOM	2744	H	ALA	179	-1.753	-6.496	29.698	1.00	0.00
ATOM	2745	HA	ALA	179	-1.533	-8.258	31.989	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.718	-8.638	31.655	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.470	-9.042	29.955	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.645	-7.357	30.446	1.00	0.00
ATOM	2749	N	LEU	180	-0.321	-9.075	29.184	1.00	0.00
ATOM	2750	CA	LEU	180	0.385	-10.076	28.406	1.00	0.00
ATOM	2755	C	LEU	180	1.858	-10.104	28.775	1.00	0.00
ATOM	2756	O	LEU	180	2.729	-9.810	27.956	1.00	0.00
ATOM	2751	CB	LEU	180	0.213	-9.805	26.910	1.00	0.00
ATOM	2752	CG	LEU	180	-1.218	-9.915	26.372	1.00	0.00
ATOM	2753	CD1	LEU	180	-2.045	-10.864	27.224	1.00	0.00
ATOM	2754	CD2	LEU	180	-1.871	-8.542	26.307	1.00	0.00
ATOM	2757	H	LEU	180	-0.252	-8.142	28.917	1.00	0.00
ATOM	2758	HA	LEU	180	-0.048	-11.038	28.639	1.00	0.00
ATOM	2759	1HB	LEU	180	0.829	-10.508	26.368	1.00	0.00
ATOM	2760	2HB	LEU	180	0.574	-8.808	26.705	1.00	0.00
ATOM	2761	HG	LEU	180	-1.185	-10.315	25.370	1.00	0.00
ATOM	2762	1HD1	LEU	180	-3.086	-10.780	26.949	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.925	-10.609	28.267	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.709	-11.878	27.061	1.00	0.00
ATOM	2765	1HD2	LEU	180	-1.122	-7.796	26.086	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.334	-8.317	27.257	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.623	-8.538	25.531	1.00	0.00
ATOM	2768	N	GLY	181	2.126	-10.461	30.013	1.00	0.00
ATOM	2769	CA	GLY	181	3.495	-10.533	30.484	1.00	0.00
ATOM	2770	C	GLY	181	4.223	-11.768	29.977	1.00	0.00
ATOM	2771	O	GLY	181	5.285	-11.661	29.363	1.00	0.00
ATOM	2772	H	GLY	181	1.384	-10.681	30.614	1.00	0.00
ATOM	2773	1HA	GLY	181	3.491	-10.548	31.563	1.00	0.00
ATOM	2774	2HA	GLY	181	4.024	-9.653	30.150	1.00	0.00
ATOM	2775	N	ALA	182	3.649	-12.939	30.237	1.00	0.00
ATOM	2776	CA	ALA	182	4.241	-14.205	29.812	1.00	0.00
ATOM	2778	C	ALA	182	3.208	-15.328	29.818	1.00	0.00
ATOM	2779	O	ALA	182	3.499	-16.455	29.413	1.00	0.00
ATOM	2777	CB	ALA	182	5.420	-14.569	30.703	1.00	0.00
ATOM	2780	H	ALA	182	2.801	-12.953	30.725	1.00	0.00
ATOM	2781	HA	ALA	182	4.606	-14.077	28.806	1.00	0.00
ATOM	2782	1HB	ALA	182	5.776	-15.557	30.446	1.00	0.00
ATOM	2783	2HB	ALA	182	5.108	-14.558	31.737	1.00	0.00



ATOM	2784	3HB	ALA	182	6.214	-13.852	30.560	1.00	0.00
ATOM	2785	N	LEU	183	2.010	-15.013	30.286	1.00	0.00
ATOM	2790	CA	LEU	183	0.927	-15.982	30.358	1.00	0.00
ATOM	2791	C	LEU	183	-0.389	-15.309	29.999	1.00	0.00
ATOM	2792	O	LEU	183	-0.481	-14.072	30.165	1.00	0.00
ATOM	2786	CB	LEU	183	0.834	-16.577	31.766	1.00	0.00
ATOM	2787	CG	LEU	183	2.059	-17.376	32.220	1.00	0.00
ATOM	2788	CD1	LEU	183	2.671	-16.758	33.469	1.00	0.00
ATOM	2789	CD2	LEU	183	1.684	-18.827	32.470	1.00	0.00
ATOM	2793	OXT	LEU	183	-1.330	-16.011	29.569	1.00	0.00
ATOM	2794	H	LEU	183	1.841	-14.099	30.593	1.00	0.00
ATOM	2795	HA	LEU	183	1.129	-16.769	29.648	1.00	0.00
ATOM	2796	1HB	LEU	183	-0.025	-17.229	31.802	1.00	0.00
ATOM	2797	2HB	LEU	183	0.681	-15.767	32.464	1.00	0.00
ATOM	2798	HG	LEU	183	2.806	-17.353	31.439	1.00	0.00
ATOM	2799	1HD1	LEU	183	1.927	-16.713	34.251	1.00	0.00
ATOM	2800	2HD1	LEU	183	3.019	-15.761	33.245	1.00	0.00
ATOM	2801	3HD1	LEU	183	3.502	-17.363	33.799	1.00	0.00
ATOM	2802	1HD2	LEU	183	0.855	-19.100	31.836	1.00	0.00
ATOM	2803	2HD2	LEU	183	1.402	-18.953	33.506	1.00	0.00
ATOM	2804	3HD2	LEU	183	2.530	-19.461	32.248	1.00	0.00
ENDMDL									
MODEL									
	6								
ATOM	3	N	GLY	-4	-37.042	-5.055	3.274	1.00	0.00
ATOM	4	CA	GLY	-4	-36.813	-5.637	4.617	1.00	0.00
ATOM	1	C	GLY	-4	-35.782	-4.857	5.401	1.00	0.00
ATOM	2	O	GLY	-4	-34.700	-4.574	4.889	1.00	0.00
ATOM	5	1HA	GLY	-4	-37.744	-5.636	5.163	1.00	0.00
ATOM	6	2HA	GLY	-4	-36.472	-6.655	4.503	1.00	0.00
ATOM	7	1HT	GLY	-4	-37.309	-5.803	2.599	1.00	0.00
ATOM	8	2HT	GLY	-4	-36.171	-4.590	2.933	1.00	0.00
ATOM	9	3HT	GLY	-4	-37.809	-4.349	3.320	1.00	0.00
ATOM	10	N	PRO	-3	-36.087	-4.484	6.656	1.00	0.00
ATOM	11	CA	PRO	-3	-35.168	-3.723	7.505	1.00	0.00
ATOM	15	C	PRO	-3	-33.968	-4.556	7.941	1.00	0.00
ATOM	16	O	PRO	-3	-32.934	-4.020	8.340	1.00	0.00
ATOM	12	CB	PRO	-3	-36.018	-3.337	8.726	1.00	0.00
ATOM	13	CG	PRO	-3	-37.428	-3.651	8.349	1.00	0.00
ATOM	14	CD	PRO	-3	-37.352	-4.763	7.347	1.00	0.00
ATOM	17	HA	PRO	-3	-34.821	-2.829	7.008	1.00	0.00
ATOM	18	1HB	PRO	-3	-35.893	-2.285	8.935	1.00	0.00
ATOM	19	2HB	PRO	-3	-35.703	-3.917	9.581	1.00	0.00
ATOM	20	1HG	PRO	-3	-37.893	-2.781	7.909	1.00	0.00
ATOM	21	2HG	PRO	-3	-37.978	-3.971	9.222	1.00	0.00
ATOM	22	1HD	PRO	-3	-38.186	-4.716	6.663	1.00	0.00
ATOM	23	2HD	PRO	-3	-37.320	-5.722	7.845	1.00	0.00
ATOM	24	N	LEU	-2	-34.112	-5.871	7.860	1.00	0.00
ATOM	25	CA	LEU	-2	-33.043	-6.776	8.242	1.00	0.00
ATOM	30	C	LEU	-2	-32.209	-7.157	7.025	1.00	0.00
ATOM	31	O	LEU	-2	-32.732	-7.685	6.043	1.00	0.00
ATOM	26	CB	LEU	-2	-33.613	-8.032	8.906	1.00	0.00
ATOM	27	CG	LEU	-2	-33.663	-7.991	10.437	1.00	0.00
ATOM	28	CD1	LEU	-2	-32.309	-7.602	11.010	1.00	0.00
ATOM	29	CD2	LEU	-2	-34.741	-7.028	10.910	1.00	0.00
ATOM	32	H	LEU	-2	-34.957	-6.240	7.531	1.00	0.00
ATOM	33	HA	LEU	-2	-32.410	-6.261	8.949	1.00	0.00
ATOM	34	1HB	LEU	-2	-33.008	-8.877	8.612	1.00	0.00
ATOM	35	2HB	LEU	-2	-34.617	-8.185	8.538	1.00	0.00
ATOM	36	HG	LEU	-2	-33.909	-8.976	10.806	1.00	0.00
ATOM	37	1HD1	LEU	-2	-32.125	-6.554	10.820	1.00	0.00
ATOM	38	2HD1	LEU	-2	-31.537	-8.194	10.542	1.00	0.00
ATOM	39	3HD1	LEU	-2	-32.305	-7.782	12.074	1.00	0.00
ATOM	40	1HD2	LEU	-2	-35.627	-7.152	10.305	1.00	0.00
ATOM	41	2HD2	LEU	-2	-34.382	-6.013	10.820	1.00	0.00
ATOM	42	3HD2	LEU	-2	-34.977	-7.235	11.943	1.00	0.00
ATOM	43	N	GLY	-1	-30.918	-6.874	7.097	1.00	0.00
ATOM	44	CA	GLY	-1	-30.018	-7.179	6.005	1.00	0.00
ATOM	45	C	GLY	-1	-28.638	-6.616	6.261	1.00	0.00
ATOM	46	O	GLY	-1	-28.414	-5.979	7.291	1.00	0.00
ATOM	47	H	GLY	-1	-30.566	-6.444	7.907	1.00	0.00
ATOM	48	1HA	GLY	-1	-30.410	-6.752	5.093	1.00	0.00
ATOM	49	2HA	GLY	-1	-29.949	-8.251	5.893	1.00	0.00
ATOM	50	N	SER	0	-27.714	-6.841	5.342	1.00	0.00



ATOM	51	CA	SER	0	-26.355	-6.343	5.498	1.00	0.00
ATOM	54	C	SER	0	-26.091	-5.174	4.552	1.00	0.00
ATOM	55	O	SER	0	-25.524	-4.156	4.954	1.00	0.00
ATOM	52	CB	SER	0	-25.356	-7.470	5.240	1.00	0.00
ATOM	53	OG	SER	0	-25.985	-8.741	5.365	1.00	0.00
ATOM	56	H	SER	0	-27.946	-7.356	4.535	1.00	0.00
ATOM	57	HA	SER	0	-26.242	-6.000	6.516	1.00	0.00
ATOM	58	1HB	SER	0	-24.550	-7.408	5.957	1.00	0.00
ATOM	59	2HB	SER	0	-24.958	-7.376	4.239	1.00	0.00
ATOM	60	HG	SER	0	-26.168	-8.913	6.294	1.00	0.00
ATOM	61	N	MET	1	-26.512	-5.340	3.297	1.00	0.00
ATOM	62	CA	MET	1	-26.337	-4.325	2.257	1.00	0.00
ATOM	67	C	MET	1	-24.854	-4.073	1.973	1.00	0.00
ATOM	68	O	MET	1	-23.983	-4.800	2.454	1.00	0.00
ATOM	63	CB	MET	1	-27.043	-3.018	2.640	1.00	0.00
ATOM	64	CG	MET	1	-28.196	-2.661	1.717	1.00	0.00
ATOM	65	SD	MET	1	-28.411	-0.880	1.526	1.00	0.00
ATOM	66	CE	MET	1	-29.617	-0.550	2.811	1.00	0.00
ATOM	69	H	MET	1	-26.952	-6.185	3.057	1.00	0.00
ATOM	70	HA	MET	1	-26.793	-4.710	1.356	1.00	0.00
ATOM	71	1HB	MET	1	-26.325	-2.212	2.613	1.00	0.00
ATOM	72	2HB	MET	1	-27.429	-3.111	3.645	1.00	0.00
ATOM	73	1HG	MET	1	-29.106	-3.078	2.124	1.00	0.00
ATOM	74	2HG	MET	1	-28.006	-3.091	0.746	1.00	0.00
ATOM	75	1HE	MET	1	-29.112	-0.433	3.759	1.00	0.00
ATOM	76	2HE	MET	1	-30.312	-1.373	2.872	1.00	0.00
ATOM	77	3HE	MET	1	-30.153	0.357	2.575	1.00	0.00
ATOM	78	N	ALA	2	-24.573	-3.044	1.183	1.00	0.00
ATOM	79	CA	ALA	2	-23.206	-2.697	0.832	1.00	0.00
ATOM	81	C	ALA	2	-23.100	-1.214	0.515	1.00	0.00
ATOM	82	O	ALA	2	-23.818	-0.700	-0.344	1.00	0.00
ATOM	80	CB	ALA	2	-22.728	-3.528	-0.350	1.00	0.00
ATOM	83	H	ALA	2	-25.307	-2.503	0.825	1.00	0.00
ATOM	84	HA	ALA	2	-22.576	-2.922	1.680	1.00	0.00
ATOM	85	1HB	ALA	2	-22.232	-2.887	-1.063	1.00	0.00
ATOM	86	2HB	ALA	2	-23.576	-4.004	-0.820	1.00	0.00
ATOM	87	3HB	ALA	2	-22.038	-4.283	-0.002	1.00	0.00
ATOM	88	N	THR	3	-22.212	-0.530	1.219	1.00	0.00
ATOM	89	CA	THR	3	-22.011	0.894	1.023	1.00	0.00
ATOM	93	C	THR	3	-20.790	1.153	0.142	1.00	0.00
ATOM	94	O	THR	3	-19.695	0.656	0.420	1.00	0.00
ATOM	90	CB	THR	3	-21.856	1.625	2.377	1.00	0.00
ATOM	91	OG1	THR	3	-20.499	1.547	2.834	1.00	0.00
ATOM	92	CG2	THR	3	-22.768	1.021	3.436	1.00	0.00
ATOM	95	H	THR	3	-21.676	-0.992	1.894	1.00	0.00
ATOM	96	HA	THR	3	-22.887	1.285	0.526	1.00	0.00
ATOM	97	HB	THR	3	-22.124	2.659	2.242	1.00	0.00
ATOM	98	HG1	THR	3	-19.936	1.235	2.116	1.00	0.00
ATOM	99	1HG2	THR	3	-22.168	0.531	4.189	1.00	0.00
ATOM	100	2HG2	THR	3	-23.426	0.300	2.975	1.00	0.00
ATOM	101	3HG2	THR	3	-23.354	1.804	3.895	1.00	0.00
ATOM	102	N	PRO	4	-20.964	1.929	-0.938	1.00	0.00
ATOM	103	CA	PRO	4	-19.880	2.251	-1.868	1.00	0.00
ATOM	107	C	PRO	4	-18.847	3.177	-1.234	1.00	0.00
ATOM	108	O	PRO	4	-19.162	4.308	-0.857	1.00	0.00
ATOM	104	CB	PRO	4	-20.587	2.960	-3.036	1.00	0.00
ATOM	105	CG	PRO	4	-22.044	2.719	-2.828	1.00	0.00
ATOM	106	CD	PRO	4	-22.230	2.548	-1.348	1.00	0.00
ATOM	109	HA	PRO	4	-19.389	1.359	-2.228	1.00	0.00
ATOM	110	1HB	PRO	4	-20.250	2.536	-3.971	1.00	0.00
ATOM	111	2HB	PRO	4	-20.354	4.016	-3.014	1.00	0.00
ATOM	112	1HG	PRO	4	-22.344	1.821	-3.348	1.00	0.00
ATOM	113	2HG	PRO	4	-22.612	3.567	-3.182	1.00	0.00
ATOM	114	1HD	PRO	4	-23.064	1.895	-1.142	1.00	0.00
ATOM	115	2HD	PRO	4	-22.368	3.507	-0.867	1.00	0.00
ATOM	116	N	ALA	5	-17.622	2.691	-1.109	1.00	0.00
ATOM	117	CA	ALA	5	-16.546	3.473	-0.519	1.00	0.00
ATOM	119	C	ALA	5	-15.362	3.556	-1.470	1.00	0.00
ATOM	120	O	ALA	5	-14.809	2.532	-1.881	1.00	0.00
ATOM	118	CB	ALA	5	-16.119	2.871	0.810	1.00	0.00
ATOM	121	H	ALA	5	-17.434	1.782	-1.422	1.00	0.00
ATOM	122	HA	ALA	5	-16.919	4.471	-0.333	1.00	0.00
ATOM	123	1HB	ALA	5	-16.942	2.309	1.229	1.00	0.00



ATOM	124	2HB	ALA	5	-15.839	3.662	1.490	1.00	0.00
ATOM	125	3HB	ALA	5	-15.276	2.213	0.654	1.00	0.00
ATOM	126	N	SER	6	-14.980	4.774	-1.817	1.00	0.00
ATOM	127	CA	SER	6	-13.865	5.000	-2.724	1.00	0.00
ATOM	130	C	SER	6	-12.709	5.670	-1.989	1.00	0.00
ATOM	131	O	SER	6	-11.974	6.481	-2.556	1.00	0.00
ATOM	128	CB	SER	6	-14.323	5.855	-3.910	1.00	0.00
ATOM	129	OG	SER	6	-15.339	5.194	-4.652	1.00	0.00
ATOM	132	H	SER	6	-15.462	5.551	-1.453	1.00	0.00
ATOM	133	HA	SER	6	-13.535	4.037	-3.088	1.00	0.00
ATOM	134	1HB	SER	6	-13.482	6.045	-4.561	1.00	0.00
ATOM	135	2HB	SER	6	-14.714	6.793	-3.544	1.00	0.00
ATOM	136	HG	SER	6	-16.191	5.632	-4.501	1.00	0.00
ATOM	137	N	ALA	7	-12.555	5.318	-0.721	1.00	0.00
ATOM	138	CA	ALA	7	-11.496	5.870	0.107	1.00	0.00
ATOM	140	C	ALA	7	-10.956	4.807	1.058	1.00	0.00
ATOM	141	O	ALA	7	-11.715	3.985	1.577	1.00	0.00
ATOM	139	CB	ALA	7	-12.007	7.075	0.889	1.00	0.00
ATOM	142	H	ALA	7	-13.171	4.664	-0.331	1.00	0.00
ATOM	143	HA	ALA	7	-10.699	6.199	-0.542	1.00	0.00
ATOM	144	1HB	ALA	7	-13.064	7.201	0.706	1.00	0.00
ATOM	145	2HB	ALA	7	-11.479	7.961	0.568	1.00	0.00
ATOM	146	3HB	ALA	7	-11.840	6.917	1.944	1.00	0.00
ATOM	147	N	PRO	8	-9.637	4.800	1.291	1.00	0.00
ATOM	148	CA	PRO	8	-8.988	3.834	2.178	1.00	0.00
ATOM	152	C	PRO	8	-9.266	4.129	3.651	1.00	0.00
ATOM	153	O	PRO	8	-8.479	4.801	4.320	1.00	0.00
ATOM	149	CB	PRO	8	-7.488	3.998	1.872	1.00	0.00
ATOM	150	CG	PRO	8	-7.411	4.903	0.686	1.00	0.00
ATOM	151	CD	PRO	8	-8.663	5.727	0.708	1.00	0.00
ATOM	154	HA	PRO	8	-9.296	2.822	1.952	1.00	0.00
ATOM	155	1HB	PRO	8	-7.057	3.032	1.657	1.00	0.00
ATOM	156	2HB	PRO	8	-6.993	4.433	2.729	1.00	0.00
ATOM	157	1HG	PRO	8	-7.364	4.317	-0.221	1.00	0.00
ATOM	158	2HG	PRO	8	-6.543	5.540	0.766	1.00	0.00
ATOM	159	1HD	PRO	8	-8.951	6.012	-0.293	1.00	0.00
ATOM	160	2HD	PRO	8	-8.534	6.598	1.334	1.00	0.00
ATOM	161	N	ASP	9	-10.397	3.635	4.144	1.00	0.00
ATOM	162	CA	ASP	9	-10.790	3.852	5.535	1.00	0.00
ATOM	167	C	ASP	9	-10.024	2.923	6.478	1.00	0.00
ATOM	168	O	ASP	9	-8.981	2.371	6.113	1.00	0.00
ATOM	163	CB	ASP	9	-12.300	3.652	5.704	1.00	0.00
ATOM	164	CG	ASP	9	-12.944	4.767	6.510	1.00	0.00
ATOM	165	OD1	ASP	9	-12.573	4.948	7.689	1.00	0.00
ATOM	166	OD2	ASP	9	-13.824	5.467	5.962	1.00	0.00
ATOM	169	H	ASP	9	-10.988	3.122	3.556	1.00	0.00
ATOM	170	HA	ASP	9	-10.545	4.873	5.785	1.00	0.00
ATOM	171	1HB	ASP	9	-12.478	2.715	6.214	1.00	0.00
ATOM	172	2HB	ASP	9	-12.765	3.620	4.730	1.00	0.00
ATOM	173	N	THR	10	-10.539	2.765	7.692	1.00	0.00
ATOM	174	CA	THR	10	-9.918	1.933	8.717	1.00	0.00
ATOM	178	C	THR	10	-9.600	0.523	8.226	1.00	0.00
ATOM	179	O	THR	10	-8.500	0.028	8.444	1.00	0.00
ATOM	175	CB	THR	10	-10.821	1.835	9.958	1.00	0.00
ATOM	176	OG1	THR	10	-12.121	2.352	9.652	1.00	0.00
ATOM	177	CG2	THR	10	-10.223	2.603	11.127	1.00	0.00
ATOM	180	H	THR	10	-11.369	3.243	7.920	1.00	0.00
ATOM	181	HA	THR	10	-8.993	2.411	9.010	1.00	0.00
ATOM	182	HB	THR	10	-10.911	0.796	10.239	1.00	0.00
ATOM	183	HG1	THR	10	-12.767	1.621	9.645	1.00	0.00
ATOM	184	1HG2	THR	10	-10.732	2.324	12.037	1.00	0.00
ATOM	185	2HG2	THR	10	-10.344	3.663	10.959	1.00	0.00
ATOM	186	3HG2	THR	10	-9.173	2.369	11.213	1.00	0.00
ATOM	187	N	ARG	11	-10.559	-0.124	7.576	1.00	0.00
ATOM	188	CA	ARG	11	-10.357	-1.484	7.075	1.00	0.00
ATOM	196	C	ARG	11	-9.192	-1.551	6.098	1.00	0.00
ATOM	197	O	ARG	11	-8.424	-2.511	6.101	1.00	0.00
ATOM	189	CB	ARG	11	-11.632	-2.005	6.410	1.00	0.00
ATOM	190	CG	ARG	11	-11.665	-3.516	6.255	1.00	0.00
ATOM	191	CD	ARG	11	-12.939	-3.976	5.568	1.00	0.00
ATOM	192	NE	ARG	11	-12.732	-4.233	4.143	1.00	0.00
ATOM	193	CZ	ARG	11	-13.705	-4.191	3.232	1.00	0.00
ATOM	194	NH1	ARG	11	-14.942	-3.872	3.597	1.00	0.00



ATOM	195	NH2	ARG	11	-13.439	-4.469	1.959	1.00	0.00
ATOM	198	H	ARG	11	-11.426	0.318	7.439	1.00	0.00
ATOM	199	HA	ARG	11	-10.118	-2.115	7.920	1.00	0.00
ATOM	200	1HB	ARG	11	-11.717	-1.563	5.429	1.00	0.00
ATOM	201	2HB	ARG	11	-12.483	-1.707	7.005	1.00	0.00
ATOM	202	1HG	ARG	11	-11.610	-3.973	7.234	1.00	0.00
ATOM	203	2HG	ARG	11	-10.818	-3.828	5.663	1.00	0.00
ATOM	204	1HD	ARG	11	-13.691	-3.207	5.680	1.00	0.00
ATOM	205	2HD	ARG	11	-13.283	-4.884	6.041	1.00	0.00
ATOM	206	HE	ARG	11	-11.815	-4.468	3.855	1.00	0.00
ATOM	207	1HH1	ARG	11	-15.143	-3.660	4.556	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.689	-3.851	2.916	1.00	0.00
ATOM	209	1HH2	ARG	11	-12.507	-4.713	1.680	1.00	0.00
ATOM	210	2HH2	ARG	11	-14.174	-4.433	1.263	1.00	0.00
ATOM	211	N	ALA	12	-9.046	-0.527	5.277	1.00	0.00
ATOM	212	CA	ALA	12	-7.955	-0.495	4.322	1.00	0.00
ATOM	214	C	ALA	12	-6.646	-0.174	5.037	1.00	0.00
ATOM	215	O	ALA	12	-5.592	-0.707	4.697	1.00	0.00
ATOM	213	CB	ALA	12	-8.233	0.520	3.224	1.00	0.00
ATOM	216	H	ALA	12	-9.672	0.227	5.324	1.00	0.00
ATOM	217	HA	ALA	12	-7.884	-1.477	3.870	1.00	0.00
ATOM	218	1HB	ALA	12	-8.996	0.134	2.563	1.00	0.00
ATOM	219	2HB	ALA	12	-7.328	0.699	2.663	1.00	0.00
ATOM	220	3HB	ALA	12	-8.573	1.445	3.666	1.00	0.00
ATOM	221	N	LEU	13	-6.728	0.695	6.040	1.00	0.00
ATOM	222	CA	LEU	13	-5.557	1.089	6.814	1.00	0.00
ATOM	227	C	LEU	13	-5.065	-0.059	7.699	1.00	0.00
ATOM	228	O	LEU	13	-3.864	-0.301	7.794	1.00	0.00
ATOM	223	CB	LEU	13	-5.868	2.327	7.662	1.00	0.00
ATOM	224	CG	LEU	13	-4.930	2.560	8.845	1.00	0.00
ATOM	225	CD1	LEU	13	-3.744	3.419	8.432	1.00	0.00
ATOM	226	CD2	LEU	13	-5.688	3.208	9.987	1.00	0.00
ATOM	229	H	LEU	13	-7.606	1.086	6.268	1.00	0.00
ATOM	230	HA	LEU	13	-4.775	1.340	6.113	1.00	0.00
ATOM	231	1HB	LEU	13	-6.874	2.231	8.046	1.00	0.00
ATOM	232	2HB	LEU	13	-5.826	3.197	7.021	1.00	0.00
ATOM	233	HG	LEU	13	-4.551	1.609	9.189	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.214	2.936	7.625	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.080	3.544	9.275	1.00	0.00
ATOM	236	3HD1	LEU	13	-4.097	4.387	8.105	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.375	2.767	10.922	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.748	3.050	9.852	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.481	4.269	10.002	1.00	0.00
ATOM	240	N	VAL	14	-5.993	-0.772	8.339	1.00	0.00
ATOM	241	CA	VAL	14	-5.623	-1.894	9.199	1.00	0.00
ATOM	245	C	VAL	14	-4.956	-2.985	8.366	1.00	0.00
ATOM	246	O	VAL	14	-3.993	-3.617	8.801	1.00	0.00
ATOM	242	CB	VAL	14	-6.834	-2.467	9.993	1.00	0.00
ATOM	243	CG1	VAL	14	-7.755	-3.298	9.112	1.00	0.00
ATOM	244	CG2	VAL	14	-6.353	-3.290	11.180	1.00	0.00
ATOM	247	H	VAL	14	-6.943	-0.541	8.228	1.00	0.00
ATOM	248	HA	VAL	14	-4.900	-1.525	9.913	1.00	0.00
ATOM	249	HB	VAL	14	-7.408	-1.637	10.378	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.403	-4.318	9.085	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.759	-2.891	8.111	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.757	-3.274	9.515	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.285	-3.171	11.290	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.583	-4.332	11.011	1.00	0.00
ATOM	255	3HG2	VAL	14	-6.848	-2.953	12.078	1.00	0.00
ATOM	256	N	ALA	15	-5.453	-3.178	7.148	1.00	0.00
ATOM	257	CA	ALA	15	-4.884	-4.166	6.243	1.00	0.00
ATOM	259	C	ALA	15	-3.527	-3.691	5.723	1.00	0.00
ATOM	260	O	ALA	15	-2.687	-4.496	5.322	1.00	0.00
ATOM	258	CB	ALA	15	-5.832	-4.433	5.084	1.00	0.00
ATOM	261	H	ALA	15	-6.218	-2.630	6.846	1.00	0.00
ATOM	262	HA	ALA	15	-4.749	-5.086	6.792	1.00	0.00
ATOM	263	1HB	ALA	15	-6.310	-5.393	5.222	1.00	0.00
ATOM	264	2HB	ALA	15	-5.277	-4.438	4.158	1.00	0.00
ATOM	265	3HB	ALA	15	-6.583	-3.658	5.048	1.00	0.00
ATOM	266	N	ASP	16	-3.326	-2.375	5.739	1.00	0.00
ATOM	267	CA	ASP	16	-2.079	-1.767	5.273	1.00	0.00
ATOM	272	C	ASP	16	-0.974	-1.904	6.315	1.00	0.00
ATOM	273	O	ASP	16	0.038	-2.553	6.065	1.00	0.00



ATOM	268	CB	ASP	16	-2.311	-0.289	4.934	1.00	0.00
ATOM	269	CG	ASP	16	-1.077	0.584	5.123	1.00	0.00
ATOM	270	OD1	ASP	16	-0.120	0.439	4.340	1.00	0.00
ATOM	271	OD2	ASP	16	-1.096	1.452	6.025	1.00	0.00
ATOM	274	H	ASP	16	-4.040	-1.791	6.074	1.00	0.00
ATOM	275	HA	ASP	16	-1.775	-2.286	4.378	1.00	0.00
ATOM	276	1HB	ASP	16	-3.098	0.096	5.567	1.00	0.00
ATOM	277	2HB	ASP	16	-2.620	-0.210	3.904	1.00	0.00
ATOM	278	N	PHE	17	-1.176	-1.283	7.475	1.00	0.00
ATOM	279	CA	PHE	17	-0.193	-1.317	8.558	1.00	0.00
ATOM	287	C	PHE	17	0.198	-2.745	8.918	1.00	0.00
ATOM	288	O	PHE	17	1.384	-3.074	8.999	1.00	0.00
ATOM	280	CB	PHE	17	-0.729	-0.602	9.799	1.00	0.00
ATOM	281	CG	PHE	17	0.357	-0.098	10.708	1.00	0.00
ATOM	282	CD1	PHE	17	1.382	0.694	10.214	1.00	0.00
ATOM	283	CD2	PHE	17	0.357	-0.423	12.055	1.00	0.00
ATOM	284	CE1	PHE	17	2.385	1.152	11.047	1.00	0.00
ATOM	285	CE2	PHE	17	1.356	0.033	12.892	1.00	0.00
ATOM	286	CZ	PHE	17	2.372	0.821	12.388	1.00	0.00
ATOM	289	H	PHE	17	-2.007	-0.775	7.600	1.00	0.00
ATOM	290	HA	PHE	17	0.689	-0.798	8.214	1.00	0.00
ATOM	291	1HB	PHE	17	-1.345	-1.287	10.363	1.00	0.00
ATOM	292	2HB	PHE	17	-1.325	0.244	9.490	1.00	0.00
ATOM	293	HD1	PHE	17	1.393	0.954	9.166	1.00	0.00
ATOM	294	HD2	PHE	17	-0.437	-1.040	12.451	1.00	0.00
ATOM	295	HE1	PHE	17	3.177	1.768	10.650	1.00	0.00
ATOM	296	HE2	PHE	17	1.344	-0.227	13.941	1.00	0.00
ATOM	297	H2	PHE	17	3.155	1.178	13.041	1.00	0.00
ATOM	298	N	VAL	18	-0.800	-3.590	9.132	1.00	0.00
ATOM	299	CA	VAL	18	-0.546	-4.979	9.477	1.00	0.00
ATOM	303	C	VAL	18	0.045	-5.717	8.280	1.00	0.00
ATOM	304	O	VAL	18	0.979	-6.501	8.424	1.00	0.00
ATOM	300	CB	VAL	18	-1.838	-5.684	9.952	1.00	0.00
ATOM	301	CG1	VAL	18	-1.607	-7.171	10.173	1.00	0.00
ATOM	302	CG2	VAL	18	-2.362	-5.032	11.223	1.00	0.00
ATOM	305	H	VAL	18	-1.726	-3.273	9.050	1.00	0.00
ATOM	306	HA	VAL	18	0.173	-4.996	10.286	1.00	0.00
ATOM	307	HB	VAL	18	-2.588	-5.572	9.183	1.00	0.00
ATOM	308	1HG1	VAL	18	-2.416	-7.730	9.729	1.00	0.00
ATOM	309	2HG1	VAL	18	-1.567	-7.376	11.233	1.00	0.00
ATOM	310	3HG1	VAL	18	-0.673	-7.463	9.715	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.284	-3.959	11.136	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.778	-5.368	12.068	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.396	-5.308	11.369	1.00	0.00
ATOM	314	N	GLY	19	-0.488	-5.439	7.097	1.00	0.00
ATOM	315	CA	GLY	19	0.009	-6.072	5.894	1.00	0.00
ATOM	316	C	GLY	19	1.470	-5.772	5.645	1.00	0.00
ATOM	317	O	GLY	19	2.256	-6.677	5.385	1.00	0.00
ATOM	318	H	GLY	19	-1.218	-4.786	7.040	1.00	0.00
ATOM	319	1HA	GLY	19	-0.569	-5.721	5.051	1.00	0.00
ATOM	320	2HA	GLY	19	-0.119	-7.142	5.983	1.00	0.00
ATOM	321	N	TYR	20	1.824	-4.498	5.717	1.00	0.00
ATOM	322	CA	TYR	20	3.191	-4.050	5.493	1.00	0.00
ATOM	331	C	TYR	20	4.148	-4.639	6.525	1.00	0.00
ATOM	332	O	TYR	20	5.214	-5.137	6.175	1.00	0.00
ATOM	323	CB	TYR	20	3.254	-2.521	5.537	1.00	0.00
ATOM	324	CG	TYR	20	4.656	-1.966	5.404	1.00	0.00
ATOM	325	CD1	TYR	20	5.371	-2.111	4.223	1.00	0.00
ATOM	326	CD2	TYR	20	5.262	-1.300	6.463	1.00	0.00
ATOM	327	CE1	TYR	20	6.652	-1.611	4.100	1.00	0.00
ATOM	328	CE2	TYR	20	6.544	-0.799	6.346	1.00	0.00
ATOM	329	CZ	TYR	20	7.232	-0.956	5.163	1.00	0.00
ATOM	330	OH	TYR	20	8.508	-0.460	5.044	1.00	0.00
ATOM	333	H	TYR	20	1.134	-3.827	5.916	1.00	0.00
ATOM	334	HA	TYR	20	3.488	-4.382	4.509	1.00	0.00
ATOM	335	1HB	TYR	20	2.848	-2.179	6.478	1.00	0.00
ATOM	336	2HB	TYR	20	2.662	-2.121	4.728	1.00	0.00
ATOM	337	HD1	TYR	20	4.719	-1.180	7.388	1.00	0.00
ATOM	338	HD2	TYR	20	4.913	-2.624	3.391	1.00	0.00
ATOM	339	HE1	TYR	20	6.999	-0.285	7.179	1.00	0.00
ATOM	340	HE2	TYR	20	7.192	-1.733	3.173	1.00	0.00
ATOM	341	HH	TYR	20	9.138	-1.192	5.048	1.00	0.00
ATOM	342	N	LYS	21	3.760	-4.570	7.793	1.00	0.00



ATOM	343	CA	LYS	21	4.580	-5.082	8.887	1.00	0.00
ATOM	349	C	LYS	21	4.808	-6.583	8.752	1.00	0.00
ATOM	350	O	LYS	21	5.910	-7.080	8.991	1.00	0.00
ATOM	344	CB	LYS	21	3.914	-4.776	10.230	1.00	0.00
ATOM	345	CG	LYS	21	4.837	-4.089	11.224	1.00	0.00
ATOM	346	CD	LYS	21	5.128	-4.974	12.425	1.00	0.00
ATOM	347	CE	LYS	21	5.108	-4.179	13.723	1.00	0.00
ATOM	348	NZ	LYS	21	5.974	-2.971	13.654	1.00	0.00
ATOM	351	H	LYS	21	2.897	-4.155	8.000	1.00	0.00
ATOM	352	HA	LYS	21	5.534	-4.579	8.848	1.00	0.00
ATOM	353	1HB	LYS	21	3.570	-5.701	10.668	1.00	0.00
ATOM	354	2HB	LYS	21	3.063	-4.133	10.058	1.00	0.00
ATOM	355	1HG	LYS	21	4.367	-3.177	11.563	1.00	0.00
ATOM	356	2HG	LYS	21	5.767	-3.853	10.729	1.00	0.00
ATOM	357	1HD	LYS	21	6.104	-5.421	12.302	1.00	0.00
ATOM	358	2HD	LYS	21	4.379	-5.749	12.479	1.00	0.00
ATOM	359	1HE	LYS	21	5.456	-4.815	14.524	1.00	0.00
ATOM	360	2HE	LYS	21	4.093	-3.871	13.925	1.00	0.00
ATOM	361	1HZ	LYS	21	6.281	-2.692	14.620	1.00	0.00
ATOM	362	2HZ	LYS	21	5.458	-2.179	13.229	1.00	0.00
ATOM	363	3HZ	LYS	21	6.823	-3.165	13.085	1.00	0.00
ATOM	364	N	LEU	22	3.762	-7.295	8.365	1.00	0.00
ATOM	365	CA	LEU	22	3.839	-8.737	8.192	1.00	0.00
ATOM	370	C	LEU	22	4.650	-9.064	6.949	1.00	0.00
ATOM	371	O	LEU	22	5.537	-9.909	6.982	1.00	0.00
ATOM	366	CB	LEU	22	2.436	-9.341	8.070	1.00	0.00
ATOM	367	CG	LEU	22	1.783	-9.783	9.383	1.00	0.00
ATOM	368	CD1	LEU	22	1.801	-8.662	10.407	1.00	0.00
ATOM	369	CD2	LEU	22	0.361	-10.244	9.121	1.00	0.00
ATOM	372	H	LEU	22	2.914	-6.839	8.190	1.00	0.00
ATOM	373	HA	LEU	22	4.331	-9.154	9.057	1.00	0.00
ATOM	374	1HB	LEU	22	2.496	-10.201	7.420	1.00	0.00
ATOM	375	2HB	LEU	22	1.792	-8.607	7.606	1.00	0.00
ATOM	376	HG	LEU	22	2.332	-10.617	9.796	1.00	0.00
ATOM	377	1HD1	LEU	22	1.998	-9.072	11.386	1.00	0.00
ATOM	378	2HD1	LEU	22	0.844	-8.162	10.411	1.00	0.00
ATOM	379	3HD1	LEU	22	2.576	-7.954	10.151	1.00	0.00
ATOM	380	1HD2	LEU	22	0.346	-10.887	8.254	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.268	-9.383	8.942	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.006	-10.786	9.979	1.00	0.00
ATOM	383	N	ARG	23	4.339	-8.370	5.858	1.00	0.00
ATOM	384	CA	ARG	23	5.025	-8.558	4.580	1.00	0.00
ATOM	392	C	ARG	23	6.504	-8.180	4.696	1.00	0.00
ATOM	393	O	ARG	23	7.324	-8.559	3.856	1.00	0.00
ATOM	385	CB	ARG	23	4.324	-7.726	3.491	1.00	0.00
ATOM	386	CG	ARG	23	4.837	-7.957	2.084	1.00	0.00
ATOM	387	CD	ARG	23	4.119	-7.056	1.087	1.00	0.00
ATOM	388	NE	ARG	23	4.899	-5.863	0.754	1.00	0.00
ATOM	389	CZ	ARG	23	5.693	-5.755	-0.312	1.00	0.00
ATOM	390	NH1	ARG	23	5.885	-6.794	-1.113	1.00	0.00
ATOM	391	NH2	ARG	23	6.299	-4.604	-0.566	1.00	0.00
ATOM	394	H	ARG	23	3.619	-7.701	5.913	1.00	0.00
ATOM	395	HA	ARG	23	4.956	-9.603	4.319	1.00	0.00
ATOM	396	1HB	ARG	23	4.438	-6.679	3.720	1.00	0.00
ATOM	397	2HB	ARG	23	3.272	-7.967	3.504	1.00	0.00
ATOM	398	1HG	ARG	23	4.666	-8.990	1.813	1.00	0.00
ATOM	399	2HG	ARG	23	5.895	-7.743	2.055	1.00	0.00
ATOM	400	1HD	ARG	23	3.169	-6.741	1.516	1.00	0.00
ATOM	401	2HD	ARG	23	3.935	-7.616	0.183	1.00	0.00
ATOM	402	HE	ARG	23	4.800	-5.081	1.348	1.00	0.00
ATOM	403	1HH1	ARG	23	5.441	-7.668	-0.922	1.00	0.00
ATOM	404	2HH1	ARG	23	6.468	-6.702	-1.932	1.00	0.00
ATOM	405	1HH2	ARG	23	6.163	-3.817	0.038	1.00	0.00
ATOM	406	2HH2	ARG	23	6.891	-4.510	-1.382	1.00	0.00
ATOM	407	N	GLN	24	6.836	-7.443	5.749	1.00	0.00
ATOM	408	CA	GLN	24	8.209	-7.022	5.989	1.00	0.00
ATOM	414	C	GLN	24	9.019	-8.143	6.639	1.00	0.00
ATOM	415	O	GLN	24	10.209	-8.298	6.356	1.00	0.00
ATOM	409	CB	GLN	24	8.239	-5.786	6.888	1.00	0.00
ATOM	410	CG	GLN	24	8.515	-4.493	6.138	1.00	0.00
ATOM	411	CD	GLN	24	9.170	-3.441	7.010	1.00	0.00
ATOM	412	OE1	GLN	24	8.690	-3.133	8.101	1.00	0.00
ATOM	413	NE2	GLN	24	10.267	-2.874	6.532	1.00	0.00



ATOM	416	H	GLN	24	6.135	-7.177	6.385	1.00	0.00
ATOM	417	HA	GLN	24	8.653	-6.776	5.036	1.00	0.00
ATOM	418	1HB	GLN	24	9.011	-5.916	7.633	1.00	0.00
ATOM	419	2HB	GLN	24	7.285	-5.692	7.385	1.00	0.00
ATOM	420	1HG	GLN	24	7.579	-4.102	5.766	1.00	0.00
ATOM	421	2HG	GLN	24	9.170	-4.708	5.306	1.00	0.00
ATOM	422	1HE2	GLN	24	10.593	-3.163	5.645	1.00	0.00
ATOM	423	2HE2	GLN	24	10.716	-2.200	7.083	1.00	0.00
ATOM	424	N	LYS	25	8.378	-8.915	7.518	1.00	0.00
ATOM	425	CA	LYS	25	9.067	-10.010	8.206	1.00	0.00
ATOM	431	C	LYS	25	8.098	-11.109	8.654	1.00	0.00
ATOM	432	O	LYS	25	7.739	-11.201	9.830	1.00	0.00
ATOM	426	CB	LYS	25	9.852	-9.475	9.414	1.00	0.00
ATOM	427	CG	LYS	25	9.139	-8.371	10.183	1.00	0.00
ATOM	428	CD	LYS	25	9.392	-8.484	11.677	1.00	0.00
ATOM	429	CE	LYS	25	9.277	-7.133	12.365	1.00	0.00
ATOM	430	NZ	LYS	25	10.532	-6.759	13.069	1.00	0.00
ATOM	433	H	LYS	25	7.428	-8.742	7.711	1.00	0.00
ATOM	434	HA	LYS	25	9.766	-10.440	7.507	1.00	0.00
ATOM	435	1HB	LYS	25	10.799	-9.087	9.067	1.00	0.00
ATOM	436	2HB	LYS	25	10.039	-10.292	10.094	1.00	0.00
ATOM	437	1HG	LYS	25	8.078	-8.444	9.999	1.00	0.00
ATOM	438	2HG	LYS	25	9.502	-7.414	9.838	1.00	0.00
ATOM	439	1HD	LYS	25	10.387	-8.875	11.835	1.00	0.00
ATOM	440	2HD	LYS	25	8.666	-9.159	12.104	1.00	0.00
ATOM	441	1HE	LYS	25	8.470	-7.178	13.084	1.00	0.00
ATOM	442	2HE	LYS	25	9.054	-6.382	11.622	1.00	0.00
ATOM	443	1HZ	LYS	25	10.393	-5.879	13.616	1.00	0.00
ATOM	444	2HZ	LYS	25	11.300	-6.604	12.379	1.00	0.00
ATOM	445	3HZ	LYS	25	10.820	-7.519	13.725	1.00	0.00
ATOM	446	N	GLY	26	7.689	-11.950	7.714	1.00	0.00
ATOM	447	CA	GLY	26	6.782	-13.038	8.038	1.00	0.00
ATOM	448	C	GLY	26	5.879	-13.400	6.882	1.00	0.00
ATOM	449	O	GLY	26	5.940	-14.505	6.345	1.00	0.00
ATOM	450	H	GLY	26	8.011	-11.835	6.796	1.00	0.00
ATOM	451	1HA	GLY	26	6.170	-12.742	8.878	1.00	0.00
ATOM	452	2HA	GLY	26	7.358	-13.905	8.316	1.00	0.00
ATOM	453	N	TYR	27	5.054	-12.454	6.492	1.00	0.00
ATOM	454	CA	TYR	27	4.125	-12.631	5.389	1.00	0.00
ATOM	463	C	TYR	27	4.780	-12.192	4.082	1.00	0.00
ATOM	464	O	TYR	27	4.219	-11.405	3.321	1.00	0.00
ATOM	455	CB	TYR	27	2.856	-11.819	5.661	1.00	0.00
ATOM	456	CG	TYR	27	1.612	-12.327	4.969	1.00	0.00
ATOM	457	CD1	TYR	27	1.388	-13.686	4.786	1.00	0.00
ATOM	458	CD2	TYR	27	0.650	-11.436	4.512	1.00	0.00
ATOM	459	CE1	TYR	27	0.239	-14.142	4.165	1.00	0.00
ATOM	460	CE2	TYR	27	-0.497	-11.883	3.890	1.00	0.00
ATOM	461	CZ	TYR	27	-0.700	-13.235	3.718	1.00	0.00
ATOM	462	OH	TYR	27	-1.850	-13.677	3.107	1.00	0.00
ATOM	465	H	TYR	27	5.076	-11.589	6.959	1.00	0.00
ATOM	466	HA	TYR	27	3.874	-13.679	5.325	1.00	0.00
ATOM	467	1HB	TYR	27	3.019	-10.800	5.341	1.00	0.00
ATOM	468	2HB	TYR	27	2.661	-11.824	6.722	1.00	0.00
ATOM	469	HD1	TYR	27	2.127	-14.393	5.136	1.00	0.00
ATOM	470	HD2	TYR	27	0.811	-10.378	4.645	1.00	0.00
ATOM	471	HE1	TYR	27	0.082	-15.202	4.032	1.00	0.00
ATOM	472	HE2	TYR	27	-1.232	-11.173	3.540	1.00	0.00
ATOM	473	HH	TYR	27	-1.649	-14.448	2.556	1.00	0.00
ATOM	474	N	VAL	28	5.979	-12.703	3.834	1.00	0.00
ATOM	475	CA	VAL	28	6.719	-12.358	2.626	1.00	0.00
ATOM	479	C	VAL	28	6.172	-13.134	1.436	1.00	0.00
ATOM	480	O	VAL	28	6.118	-12.625	0.318	1.00	0.00
ATOM	476	CB	VAL	28	8.230	-12.642	2.776	1.00	0.00
ATOM	477	CG1	VAL	28	9.025	-11.853	1.746	1.00	0.00
ATOM	478	CG2	VAL	28	8.703	-12.314	4.186	1.00	0.00
ATOM	481	H	VAL	28	6.379	-13.323	4.481	1.00	0.00
ATOM	482	HA	VAL	28	6.585	-11.303	2.447	1.00	0.00
ATOM	483	HB	VAL	28	8.399	-13.694	2.598	1.00	0.00
ATOM	484	1HG1	VAL	28	9.537	-11.037	2.234	1.00	0.00
ATOM	485	2HG1	VAL	28	8.352	-11.460	0.998	1.00	0.00
ATOM	486	3HG1	VAL	28	9.748	-12.501	1.274	1.00	0.00
ATOM	487	1HG2	VAL	28	9.710	-12.680	4.324	1.00	0.00
ATOM	488	2HG2	VAL	28	8.048	-12.787	4.903	1.00	0.00



ATOM	489	3HG2	VAL	28	8.685	-11.245	4.332	1.00	0.00
ATOM	490	N	CYS	29	5.733	-14.360	1.697	1.00	0.00
ATOM	491	CA	CYS	29	5.156	-15.204	0.660	1.00	0.00
ATOM	494	C	CYS	29	3.801	-14.644	0.237	1.00	0.00
ATOM	495	O	CYS	29	3.323	-14.894	-0.867	1.00	0.00
ATOM	492	CB	CYS	29	4.991	-16.639	1.166	1.00	0.00
ATOM	493	SG	CYS	29	6.015	-17.855	0.304	1.00	0.00
ATOM	496	H	CYS	29	5.784	-14.698	2.614	1.00	0.00
ATOM	497	HA	CYS	29	5.825	-15.199	-0.190	1.00	0.00
ATOM	498	1HB	CYS	29	3.959	-16.936	1.049	1.00	0.00
ATOM	499	2HB	CYS	29	5.252	-16.674	2.213	1.00	0.00
ATOM	500	HG	CYS	29	6.443	-17.310	-0.831	1.00	0.00
ATOM	501	N	GLY	30	3.198	-13.868	1.128	1.00	0.00
ATOM	502	CA	GLY	30	1.917	-13.263	0.848	1.00	0.00
ATOM	503	C	GLY	30	2.048	-11.782	0.578	1.00	0.00
ATOM	504	O	GLY	30	1.333	-10.966	1.162	1.00	0.00
ATOM	505	H	GLY	30	3.636	-13.693	1.984	1.00	0.00
ATOM	506	1HA	GLY	30	1.267	-13.407	1.694	1.00	0.00
ATOM	507	2HA	GLY	30	1.482	-13.743	-0.017	1.00	0.00
ATOM	508	N	ALA	31	2.970	-11.442	-0.305	1.00	0.00
ATOM	509	CA	ALA	31	3.213	-10.055	-0.669	1.00	0.00
ATOM	511	C	ALA	31	1.998	-9.481	-1.387	1.00	0.00
ATOM	512	O	ALA	31	1.508	-10.065	-2.355	1.00	0.00
ATOM	510	CB	ALA	31	4.455	-9.949	-1.542	1.00	0.00
ATOM	513	H	ALA	31	3.502	-12.148	-0.726	1.00	0.00
ATOM	514	HA	ALA	31	3.384	-9.495	0.239	1.00	0.00
ATOM	515	1HB	ALA	31	5.299	-9.655	-0.934	1.00	0.00
ATOM	516	2HB	ALA	31	4.292	-9.209	-2.313	1.00	0.00
ATOM	517	3HB	ALA	31	4.657	-10.906	-1.999	1.00	0.00
ATOM	518	N	GLY	32	1.497	-8.352	-0.903	1.00	0.00
ATOM	519	CA	GLY	32	0.329	-7.758	-1.525	1.00	0.00
ATOM	520	C	GLY	32	-0.295	-6.639	-0.710	1.00	0.00
ATOM	521	O	GLY	32	-0.487	-5.539	-1.224	1.00	0.00
ATOM	522	H	GLY	32	1.909	-7.929	-0.119	1.00	0.00
ATOM	523	1HA	GLY	32	-0.411	-8.531	-1.676	1.00	0.00
ATOM	524	2HA	GLY	32	0.615	-7.363	-2.488	1.00	0.00
ATOM	525	N	PRO	33	-0.640	-6.881	0.568	1.00	0.00
ATOM	526	CA	PRO	33	-1.262	-5.863	1.417	1.00	0.00
ATOM	530	C	PRO	33	-0.301	-4.736	1.761	1.00	0.00
ATOM	531	O	PRO	33	-0.629	-3.560	1.624	1.00	0.00
ATOM	527	CB	PRO	33	-1.661	-6.635	2.685	1.00	0.00
ATOM	528	CG	PRO	33	-1.564	-8.075	2.316	1.00	0.00
ATOM	529	CD	PRO	33	-0.474	-8.149	1.292	1.00	0.00
ATOM	532	HA	PRO	33	-2.145	-5.449	0.952	1.00	0.00
ATOM	533	1HB	PRO	33	-2.666	-6.368	2.968	1.00	0.00
ATOM	534	2HB	PRO	33	-0.980	-6.387	3.486	1.00	0.00
ATOM	535	1HG	PRO	33	-2.499	-8.415	1.895	1.00	0.00
ATOM	536	2HG	PRO	33	-1.305	-8.664	3.185	1.00	0.00
ATOM	537	1HD	PRO	33	-0.610	-8.990	0.636	1.00	0.00
ATOM	538	2HD	PRO	33	0.493	-8.195	1.772	1.00	0.00
ATOM	539	N	GLY	34	0.887	-5.108	2.211	1.00	0.00
ATOM	540	CA	GLY	34	1.884	-4.124	2.582	1.00	0.00
ATOM	541	C	GLY	34	2.789	-3.723	1.441	1.00	0.00
ATOM	542	O	GLY	34	3.961	-3.409	1.656	1.00	0.00
ATOM	543	H	GLY	34	1.084	-6.060	2.301	1.00	0.00
ATOM	544	1HA	GLY	34	2.489	-4.536	3.376	1.00	0.00
ATOM	545	2HA	GLY	34	1.383	-3.244	2.953	1.00	0.00
ATOM	546	N	GLU	35	2.266	-3.739	0.225	1.00	0.00
ATOM	547	CA	GLU	35	3.060	-3.360	-0.936	1.00	0.00
ATOM	553	C	GLU	35	3.145	-1.846	-1.028	1.00	0.00
ATOM	554	O	GLU	35	4.206	-1.278	-1.290	1.00	0.00
ATOM	548	CB	GLU	35	2.455	-3.912	-2.221	1.00	0.00
ATOM	549	CG	GLU	35	2.548	-5.417	-2.322	1.00	0.00
ATOM	550	CD	GLU	35	3.482	-5.877	-3.421	1.00	0.00
ATOM	551	OE1	GLU	35	4.587	-5.315	-3.542	1.00	0.00
ATOM	552	OE2	GLU	35	3.113	-6.813	-4.162	1.00	0.00
ATOM	555	H	GLU	35	1.330	-4.007	0.106	1.00	0.00
ATOM	556	HA	GLU	35	4.051	-3.768	-0.803	1.00	0.00
ATOM	557	1HB	GLU	35	2.973	-3.482	-3.065	1.00	0.00
ATOM	558	2HB	GLU	35	1.413	-3.632	-2.265	1.00	0.00
ATOM	559	1HG	GLU	35	1.561	-5.806	-2.516	1.00	0.00
ATOM	560	2HG	GLU	35	2.907	-5.803	-1.379	1.00	0.00
ATOM	561	N	GLY	36	2.006	-1.207	-0.798	1.00	0.00



ATOM	562	CA	GLY	36	1.935	0.241	-0.841	1.00	0.00
ATOM	563	C	GLY	36	2.518	0.873	0.408	1.00	0.00
ATOM	564	O	GLY	36	2.448	0.290	1.487	1.00	0.00
ATOM	565	H	GLY	36	1.205	-1.729	-0.589	1.00	0.00
ATOM	566	1HA	GLY	36	0.902	0.539	-0.935	1.00	0.00
ATOM	567	2HA	GLY	36	2.483	0.593	-1.702	1.00	0.00
ATOM	568	N	PRO	37	3.130	2.056	0.288	1.00	0.00
ATOM	569	CA	PRO	37	3.748	2.746	1.402	1.00	0.00
ATOM	573	C	PRO	37	2.865	3.838	2.012	1.00	0.00
ATOM	574	O	PRO	37	1.629	3.781	1.966	1.00	0.00
ATOM	570	CB	PRO	37	4.972	3.362	0.730	1.00	0.00
ATOM	571	CG	PRO	37	4.534	3.660	-0.677	1.00	0.00
ATOM	572	CD	PRO	37	3.310	2.813	-0.956	1.00	0.00
ATOM	575	HA	PRO	37	4.064	2.059	2.173	1.00	0.00
ATOM	576	1HB	PRO	37	5.789	2.656	0.744	1.00	0.00
ATOM	577	2HB	PRO	37	5.258	4.262	1.254	1.00	0.00
ATOM	578	1HG	PRO	37	5.327	3.405	-1.365	1.00	0.00
ATOM	579	2HG	PRO	37	4.286	4.706	-0.765	1.00	0.00
ATOM	580	1HD	PRO	37	3.493	2.149	-1.788	1.00	0.00
ATOM	581	2HD	PRO	37	2.452	3.439	-1.152	1.00	0.00
ATOM	582	N	ALA	38	3.521	4.840	2.576	1.00	0.00
ATOM	583	CA	ALA	38	2.851	5.966	3.199	1.00	0.00
ATOM	585	C	ALA	38	2.405	6.981	2.151	1.00	0.00
ATOM	586	O	ALA	38	3.135	7.920	1.836	1.00	0.00
ATOM	584	CB	ALA	38	3.791	6.610	4.203	1.00	0.00
ATOM	587	H	ALA	38	4.502	4.822	2.568	1.00	0.00
ATOM	588	HA	ALA	38	1.983	5.601	3.733	1.00	0.00
ATOM	589	1HB	ALA	38	3.402	6.472	5.201	1.00	0.00
ATOM	590	2HB	ALA	38	3.874	7.667	3.993	1.00	0.00
ATOM	591	3HB	ALA	38	4.765	6.150	4.131	1.00	0.00
ATOM	592	N	ALA	39	1.214	6.783	1.601	1.00	0.00
ATOM	593	CA	ALA	39	0.699	7.688	0.578	1.00	0.00
ATOM	595	C	ALA	39	-0.683	8.221	0.933	1.00	0.00
ATOM	596	O	ALA	39	-1.163	9.174	0.326	1.00	0.00
ATOM	594	CB	ALA	39	0.661	6.982	-0.769	1.00	0.00
ATOM	597	H	ALA	39	0.679	6.008	1.876	1.00	0.00
ATOM	598	HA	ALA	39	1.382	8.519	0.499	1.00	0.00
ATOM	599	1HB	ALA	39	0.582	7.717	-1.558	1.00	0.00
ATOM	600	2HB	ALA	39	-0.193	6.321	-0.806	1.00	0.00
ATOM	601	3HB	ALA	39	1.566	6.408	-0.903	1.00	0.00
ATOM	602	N	ASP	40	-1.325	7.600	1.910	1.00	0.00
ATOM	603	CA	ASP	40	-2.654	8.010	2.325	1.00	0.00
ATOM	608	C	ASP	40	-2.587	8.977	3.497	1.00	0.00
ATOM	609	O	ASP	40	-1.599	8.993	4.239	1.00	0.00
ATOM	604	CB	ASP	40	-3.482	6.788	2.717	1.00	0.00
ATOM	605	CG	ASP	40	-3.916	5.971	1.518	1.00	0.00
ATOM	606	OD1	ASP	40	-4.487	6.553	0.577	1.00	0.00
ATOM	607	OD2	ASP	40	-3.678	4.745	1.519	1.00	0.00
ATOM	610	H	ASP	40	-0.906	6.848	2.356	1.00	0.00
ATOM	611	HA	ASP	40	-3.128	8.503	1.489	1.00	0.00
ATOM	612	1HB	ASP	40	-4.364	7.119	3.242	1.00	0.00
ATOM	613	2HB	ASP	40	-2.895	6.158	3.370	1.00	0.00
ATOM	614	N	PRO	41	-3.658	9.762	3.699	1.00	0.00
ATOM	615	CA	PRO	41	-3.764	10.727	4.797	1.00	0.00
ATOM	619	C	PRO	41	-4.033	10.039	6.133	1.00	0.00
ATOM	620	O	PRO	41	-4.951	10.401	6.869	1.00	0.00
ATOM	616	CB	PRO	41	-4.947	11.623	4.408	1.00	0.00
ATOM	617	CG	PRO	41	-5.564	11.033	3.177	1.00	0.00
ATOM	618	CD	PRO	41	-4.866	9.734	2.874	1.00	0.00
ATOM	621	HA	PRO	41	-2.869	11.325	4.880	1.00	0.00
ATOM	622	1HB	PRO	41	-4.587	12.624	4.222	1.00	0.00
ATOM	623	2HB	PRO	41	-5.656	11.646	5.222	1.00	0.00
ATOM	624	1HG	PRO	41	-5.443	11.720	2.350	1.00	0.00
ATOM	625	2HG	PRO	41	-6.612	10.851	3.352	1.00	0.00
ATOM	626	1HD	PRO	41	-4.608	9.681	1.827	1.00	0.00
ATOM	627	2HD	PRO	41	-5.485	8.895	3.146	1.00	0.00
ATOM	628	N	LEU	42	-3.209	9.042	6.420	1.00	0.00
ATOM	629	CA	LEU	42	-3.282	8.249	7.643	1.00	0.00
ATOM	634	C	LEU	42	-2.160	7.226	7.617	1.00	0.00
ATOM	635	O	LEU	42	-1.602	6.861	8.648	1.00	0.00
ATOM	630	CB	LEU	42	-4.635	7.531	7.800	1.00	0.00
ATOM	631	CG	LEU	42	-5.385	7.216	6.497	1.00	0.00
ATOM	632	CD1	LEU	42	-5.241	5.747	6.133	1.00	0.00



ATOM	633	CD2	LEU	42	-6.854	7.590	6.627	1.00	0.00
ATOM	636	H	LEU	42	-2.507	8.832	5.770	1.00	0.00
ATOM	637	HA	LEU	42	-3.126	8.916	8.481	1.00	0.00
ATOM	638	1HB	LEU	42	-5.274	8.148	8.414	1.00	0.00
ATOM	639	2HB	LEU	42	-4.458	6.601	8.320	1.00	0.00
ATOM	640	HG	LEU	42	-4.959	7.801	5.696	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.292	5.589	5.641	1.00	0.00
ATOM	642	2HD1	LEU	42	-6.042	5.460	5.469	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.285	5.146	7.031	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.344	6.900	7.299	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.324	7.543	5.657	1.00	0.00
ATOM	646	3HD2	LEU	42	-6.936	8.594	7.019	1.00	0.00
ATOM	647	N	HIS	43	-1.829	6.784	6.408	1.00	0.00
ATOM	648	CA	HIS	43	-0.762	5.812	6.195	1.00	0.00
ATOM	655	C	HIS	43	0.562	6.370	6.696	1.00	0.00
ATOM	656	O	HIS	43	1.226	5.770	7.538	1.00	0.00
ATOM	649	CB	HIS	43	-0.626	5.508	4.706	1.00	0.00
ATOM	650	CG	HIS	43	-1.407	4.321	4.215	1.00	0.00
ATOM	651	ND1	HIS	43	-0.988	3.534	3.163	1.00	0.00
ATOM	652	CD2	HIS	43	-2.618	3.834	4.588	1.00	0.00
ATOM	653	CE1	HIS	43	-1.909	2.627	2.905	1.00	0.00
ATOM	654	NE2	HIS	43	-2.908	2.785	3.756	1.00	0.00
ATOM	657	H	HIS	43	-2.315	7.130	5.632	1.00	0.00
ATOM	658	HA	HIS	43	-1.001	4.911	6.737	1.00	0.00
ATOM	659	1HB	HIS	43	0.414	5.343	4.490	1.00	0.00
ATOM	660	2HB	HIS	43	-0.963	6.369	4.149	1.00	0.00
ATOM	661	HD1	HIS	43	-0.122	3.600	2.699	1.00	0.00
ATOM	662	HD2	HIS	43	-3.241	4.205	5.394	1.00	0.00
ATOM	663	HE1	HIS	43	-1.857	1.880	2.128	1.00	0.00
ATOM	664	HE2	HIS	43	-3.610	2.124	3.913	1.00	0.00
ATOM	665	N	GLN	44	0.931	7.534	6.159	1.00	0.00
ATOM	666	CA	GLN	44	2.177	8.204	6.533	1.00	0.00
ATOM	672	C	GLN	44	2.205	8.513	8.020	1.00	0.00
ATOM	673	O	GLN	44	3.268	8.645	8.620	1.00	0.00
ATOM	667	CB	GLN	44	2.353	9.508	5.745	1.00	0.00
ATOM	668	CG	GLN	44	1.698	9.495	4.373	1.00	0.00
ATOM	669	CD	GLN	44	1.242	10.869	3.934	1.00	0.00
ATOM	670	OE1	GLN	44	0.333	11.449	4.521	1.00	0.00
ATOM	671	NE2	GLN	44	1.869	11.398	2.894	1.00	0.00
ATOM	674	H	GLN	44	0.351	7.953	5.488	1.00	0.00
ATOM	675	HA	GLN	44	2.995	7.539	6.299	1.00	0.00
ATOM	676	1HB	GLN	44	3.409	9.691	5.612	1.00	0.00
ATOM	677	2HB	GLN	44	1.927	10.320	6.315	1.00	0.00
ATOM	678	1HG	GLN	44	0.839	8.840	4.405	1.00	0.00
ATOM	679	2HG	GLN	44	2.409	9.121	3.653	1.00	0.00
ATOM	680	1HE2	GLN	44	2.586	10.878	2.473	1.00	0.00
ATOM	681	2HE2	GLN	44	1.591	12.287	2.587	1.00	0.00
ATOM	682	N	ALA	45	1.027	8.626	8.604	1.00	0.00
ATOM	683	CA	ALA	45	0.908	8.925	10.021	1.00	0.00
ATOM	685	C	ALA	45	1.173	7.692	10.870	1.00	0.00
ATOM	686	O	ALA	45	1.979	7.729	11.802	1.00	0.00
ATOM	684	CB	ALA	45	-0.471	9.482	10.321	1.00	0.00
ATOM	687	H	ALA	45	0.214	8.500	8.066	1.00	0.00
ATOM	688	HA	ALA	45	1.638	9.684	10.264	1.00	0.00
ATOM	689	1HB	ALA	45	-0.619	9.516	11.391	1.00	0.00
ATOM	690	2HB	ALA	45	-1.221	8.847	9.874	1.00	0.00
ATOM	691	3HB	ALA	45	-0.554	10.480	9.915	1.00	0.00
ATOM	692	N	MET	46	0.487	6.601	10.555	1.00	0.00
ATOM	693	CA	MET	46	0.639	5.363	11.306	1.00	0.00
ATOM	698	C	MET	46	2.042	4.791	11.166	1.00	0.00
ATOM	699	O	MET	46	2.622	4.308	12.140	1.00	0.00
ATOM	694	CB	MET	46	-0.382	4.331	10.839	1.00	0.00
ATOM	695	CG	MET	46	-0.789	3.356	11.926	1.00	0.00
ATOM	696	SD	MET	46	-2.450	2.719	11.688	1.00	0.00
ATOM	697	CE	MET	46	-3.355	3.771	12.811	1.00	0.00
ATOM	700	H	MET	46	-0.152	6.631	9.800	1.00	0.00
ATOM	701	HA	MET	46	0.459	5.584	12.346	1.00	0.00
ATOM	702	1HB	MET	46	0.040	3.768	10.020	1.00	0.00
ATOM	703	2HB	MET	46	-1.267	4.844	10.494	1.00	0.00
ATOM	704	1HG	MET	46	-0.745	3.860	12.880	1.00	0.00
ATOM	705	2HG	MET	46	-0.101	2.528	11.927	1.00	0.00
ATOM	706	1HE	MET	46	-4.347	3.943	12.417	1.00	0.00
ATOM	707	2HE	MET	46	-2.839	4.714	12.918	1.00	0.00



ATOM	708	3HE	MET	46	-3.430	3.289	13.774	1.00	0.00
ATOM	709	N	ARG	47	2.574	4.837	9.954	1.00	0.00
ATOM	710	CA	ARG	47	3.905	4.311	9.680	1.00	0.00
ATOM	718	C	ARG	47	4.980	5.065	10.458	1.00	0.00
ATOM	719	O	ARG	47	5.994	4.485	10.842	1.00	0.00
ATOM	711	CB	ARG	47	4.202	4.377	8.181	1.00	0.00
ATOM	712	CG	ARG	47	5.115	3.263	7.689	1.00	0.00
ATOM	713	CD	ARG	47	5.585	3.520	6.266	1.00	0.00
ATOM	714	NE	ARG	47	6.695	2.645	5.880	1.00	0.00
ATOM	715	CZ	ARG	47	7.934	3.076	5.620	1.00	0.00
ATOM	716	NH1	ARG	47	8.235	4.365	5.734	1.00	0.00
ATOM	717	NH2	ARG	47	8.874	2.215	5.250	1.00	0.00
ATOM	720	H	ARG	47	2.052	5.227	9.217	1.00	0.00
ATOM	721	HA	ARG	47	3.916	3.277	9.990	1.00	0.00
ATOM	722	1HB	ARG	47	4.675	5.323	7.963	1.00	0.00
ATOM	723	2HB	ARG	47	3.270	4.317	7.638	1.00	0.00
ATOM	724	1HG	ARG	47	4.574	2.328	7.718	1.00	0.00
ATOM	725	2HG	ARG	47	5.975	3.204	8.337	1.00	0.00
ATOM	726	1HD	ARG	47	5.908	4.549	6.189	1.00	0.00
ATOM	727	2HD	ARG	47	4.758	3.353	5.593	1.00	0.00
ATOM	728	HE	ARG	47	6.502	1.685	5.801	1.00	0.00
ATOM	729	1HH1	ARG	47	7.534	5.030	6.020	1.00	0.00
ATOM	730	2HH1	ARG	47	9.176	4.682	5.541	1.00	0.00
ATOM	731	1HH2	ARG	47	8.663	1.231	5.165	1.00	0.00
ATOM	732	2HH2	ARG	47	9.806	2.540	5.046	1.00	0.00
ATOM	733	N	ALA	48	4.751	6.352	10.701	1.00	0.00
ATOM	734	CA	ALA	48	5.712	7.158	11.438	1.00	0.00
ATOM	736	C	ALA	48	5.572	6.919	12.928	1.00	0.00
ATOM	737	O	ALA	48	6.566	6.740	13.633	1.00	0.00
ATOM	735	CB	ALA	48	5.539	8.630	11.113	1.00	0.00
ATOM	738	H	ALA	48	3.914	6.763	10.390	1.00	0.00
ATOM	739	HA	ALA	48	6.704	6.857	11.128	1.00	0.00
ATOM	740	1HB	ALA	48	6.455	9.015	10.691	1.00	0.00
ATOM	741	2HB	ALA	48	5.303	9.172	12.017	1.00	0.00
ATOM	742	3HB	ALA	48	4.737	8.750	10.401	1.00	0.00
ATOM	743	N	ALA	49	4.331	6.899	13.401	1.00	0.00
ATOM	744	CA	ALA	49	4.062	6.660	14.808	1.00	0.00
ATOM	746	C	ALA	49	4.633	5.316	15.210	1.00	0.00
ATOM	747	O	ALA	49	5.421	5.218	16.152	1.00	0.00
ATOM	745	CB	ALA	49	2.572	6.705	15.075	1.00	0.00
ATOM	748	H	ALA	49	3.577	7.039	12.783	1.00	0.00
ATOM	749	HA	ALA	49	4.542	7.438	15.385	1.00	0.00
ATOM	750	1HB	ALA	49	2.328	7.620	15.594	1.00	0.00
ATOM	751	2HB	ALA	49	2.289	5.859	15.684	1.00	0.00
ATOM	752	3HB	ALA	49	2.036	6.671	14.137	1.00	0.00
ATOM	753	N	GLY	50	4.235	4.284	14.469	1.00	0.00
ATOM	754	CA	GLY	50	4.713	2.943	14.725	1.00	0.00
ATOM	755	C	GLY	50	6.224	2.876	14.790	1.00	0.00
ATOM	756	O	GLY	50	6.767	2.322	15.723	1.00	0.00
ATOM	757	H	GLY	50	3.604	4.442	13.731	1.00	0.00
ATOM	758	1HA	GLY	50	4.367	2.294	13.937	1.00	0.00
ATOM	759	2HA	GLY	50	4.308	2.601	15.666	1.00	0.00
ATOM	760	N	ASP	51	6.893	3.455	13.797	1.00	0.00
ATOM	761	CA	ASP	51	8.357	3.476	13.731	1.00	0.00
ATOM	766	C	ASP	51	8.968	4.102	14.983	1.00	0.00
ATOM	767	O	ASP	51	9.851	3.518	15.621	1.00	0.00
ATOM	762	CB	ASP	51	8.796	4.265	12.497	1.00	0.00
ATOM	763	CG	ASP	51	10.183	3.892	12.020	1.00	0.00
ATOM	764	OD1	ASP	51	10.677	2.805	12.391	1.00	0.00
ATOM	765	OD2	ASP	51	10.783	4.686	11.263	1.00	0.00
ATOM	768	H	ASP	51	6.390	3.888	13.084	1.00	0.00
ATOM	769	HA	ASP	51	8.708	2.460	13.643	1.00	0.00
ATOM	770	1HB	ASP	51	8.789	5.321	12.733	1.00	0.00
ATOM	771	2HB	ASP	51	8.099	4.080	11.693	1.00	0.00
ATOM	772	N	GLU	52	8.493	5.291	15.332	1.00	0.00
ATOM	773	CA	GLU	52	8.987	6.002	16.506	1.00	0.00
ATOM	779	C	GLU	52	8.735	5.195	17.782	1.00	0.00
ATOM	780	O	GLU	52	9.635	5.019	18.613	1.00	0.00
ATOM	774	CB	GLU	52	8.325	7.385	16.599	1.00	0.00
ATOM	775	CG	GLU	52	8.332	7.990	17.998	1.00	0.00
ATOM	776	CD	GLU	52	8.818	9.427	18.016	1.00	0.00
ATOM	777	OE1	GLU	52	8.036	10.332	17.640	1.00	0.00
ATOM	778	OE2	GLU	52	9.975	9.655	18.423	1.00	0.00



ATOM	781	H	GLU	52	7.788	5.704	14.781	1.00	0.00
ATOM	782	HA	GLU	52	10.053	6.133	16.382	1.00	0.00
ATOM	783	1HB	GLU	52	7.298	7.301	16.272	1.00	0.00
ATOM	784	2HB	GLU	52	8.845	8.062	15.938	1.00	0.00
ATOM	785	1HG	GLU	52	8.982	7.399	18.626	1.00	0.00
ATOM	786	2HG	GLU	52	7.328	7.960	18.393	1.00	0.00
ATOM	787	N	PHE	53	7.511	4.705	17.937	1.00	0.00
ATOM	788	CA	PHE	53	7.150	3.928	19.116	1.00	0.00
ATOM	796	C	PHE	53	7.830	2.570	19.114	1.00	0.00
ATOM	797	O	PHE	53	8.175	2.059	20.165	1.00	0.00
ATOM	789	CB	PHE	53	5.638	3.766	19.216	1.00	0.00
ATOM	790	CG	PHE	53	4.985	4.854	20.020	1.00	0.00
ATOM	791	CD1	PHE	53	5.026	6.172	19.589	1.00	0.00
ATOM	792	CD2	PHE	53	4.335	4.562	21.206	1.00	0.00
ATOM	793	CE1	PHE	53	4.430	7.175	20.328	1.00	0.00
ATOM	794	CE2	PHE	53	3.738	5.560	21.948	1.00	0.00
ATOM	795	CZ	PHE	53	3.785	6.868	21.508	1.00	0.00
ATOM	798	H	PHE	53	6.830	4.873	17.243	1.00	0.00
ATOM	799	HA	PHE	53	7.494	4.476	19.983	1.00	0.00
ATOM	800	1HB	PHE	53	5.411	2.821	19.686	1.00	0.00
ATOM	801	2HB	PHE	53	5.212	3.783	18.222	1.00	0.00
ATOM	802	HD1	PHE	53	4.297	3.538	21.549	1.00	0.00
ATOM	803	HD2	PHE	53	5.530	6.413	18.664	1.00	0.00
ATOM	804	HE1	PHE	53	3.234	5.319	22.872	1.00	0.00
ATOM	805	HE2	PHE	53	4.468	8.198	19.983	1.00	0.00
ATOM	806	HZ	PHE	53	3.320	7.650	22.089	1.00	0.00
ATOM	807	N	GLU	54	8.040	2.003	17.936	1.00	0.00
ATOM	808	CA	GLU	54	8.707	0.709	17.805	1.00	0.00
ATOM	814	C	GLU	54	10.151	0.843	18.281	1.00	0.00
ATOM	815	O	GLU	54	10.765	-0.110	18.762	1.00	0.00
ATOM	809	CB	GLU	54	8.640	0.225	16.346	1.00	0.00
ATOM	810	CG	GLU	54	9.261	-1.142	16.103	1.00	0.00
ATOM	811	CD	GLU	54	8.319	-2.070	15.360	1.00	0.00
ATOM	812	OE1	GLU	54	7.174	-2.258	15.819	1.00	0.00
ATOM	813	OE2	GLU	54	8.707	-2.611	14.300	1.00	0.00
ATOM	816	H	GLU	54	7.749	2.471	17.121	1.00	0.00
ATOM	817	HA	GLU	54	8.194	0.004	18.440	1.00	0.00
ATOM	818	1HB	GLU	54	9.134	0.948	15.707	1.00	0.00
ATOM	819	2HB	GLU	54	7.600	0.168	16.057	1.00	0.00
ATOM	820	1HG	GLU	54	9.505	-1.588	17.055	1.00	0.00
ATOM	821	2HG	GLU	54	10.160	-1.020	15.518	1.00	0.00
ATOM	822	N	THR	55	10.670	2.056	18.166	1.00	0.00
ATOM	823	CA	THR	55	12.017	2.359	18.598	1.00	0.00
ATOM	827	C	THR	55	12.065	2.557	20.119	1.00	0.00
ATOM	828	O	THR	55	13.066	2.247	20.765	1.00	0.00
ATOM	824	CB	THR	55	12.538	3.623	17.884	1.00	0.00
ATOM	825	OG1	THR	55	12.495	3.434	16.461	1.00	0.00
ATOM	826	CG2	THR	55	13.961	3.949	18.303	1.00	0.00
ATOM	829	H	THR	55	10.116	2.774	17.790	1.00	0.00
ATOM	830	HA	THR	55	12.653	1.527	18.330	1.00	0.00
ATOM	831	HB	THR	55	11.901	4.455	18.150	1.00	0.00
ATOM	832	HG1	THR	55	11.572	3.404	16.161	1.00	0.00
ATOM	833	1HG2	THR	55	14.030	4.995	18.560	1.00	0.00
ATOM	834	2HG2	THR	55	14.632	3.734	17.485	1.00	0.00
ATOM	835	3HG2	THR	55	14.232	3.349	19.160	1.00	0.00
ATOM	836	N	ARG	56	10.978	3.071	20.687	1.00	0.00
ATOM	837	CA	ARG	56	10.907	3.307	22.129	1.00	0.00
ATOM	845	C	ARG	56	10.359	2.077	22.872	1.00	0.00
ATOM	846	O	ARG	56	10.977	1.570	23.807	1.00	0.00
ATOM	838	CB	ARG	56	10.020	4.526	22.427	1.00	0.00
ATOM	839	CG	ARG	56	10.599	5.859	21.959	1.00	0.00
ATOM	840	CD	ARG	56	9.599	6.999	22.145	1.00	0.00
ATOM	841	NE	ARG	56	9.894	8.151	21.294	1.00	0.00
ATOM	842	CZ	ARG	56	10.071	9.392	21.752	1.00	0.00
ATOM	843	NH1	ARG	56	10.033	9.640	23.056	1.00	0.00
ATOM	844	NH2	ARG	56	10.279	10.387	20.908	1.00	0.00
ATOM	847	H	ARG	56	10.206	3.297	20.121	1.00	0.00
ATOM	848	HA	ARG	56	11.907	3.506	22.481	1.00	0.00
ATOM	849	1HB	ARG	56	9.861	4.582	23.494	1.00	0.00
ATOM	850	2HB	ARG	56	9.066	4.385	21.940	1.00	0.00
ATOM	851	1HG	ARG	56	10.852	5.783	20.911	1.00	0.00
ATOM	852	2HG	ARG	56	11.488	6.077	22.531	1.00	0.00
ATOM	853	1HD	ARG	56	9.615	7.318	23.178	1.00	0.00



ATOM	854	2HD	ARG	56	8.612	6.635	21.902	1.00	0.00
ATOM	855	HE	ARG	56	9.945	7.995	20.322	1.00	0.00
ATOM	856	1HH1	ARG	56	9.872	8.900	23.707	1.00	0.00
ATOM	857	2HH1	ARG	56	10.166	10.583	23.389	1.00	0.00
ATOM	858	1HH2	ARG	56	10.300	10.211	19.906	1.00	0.00
ATOM	859	2HH2	ARG	56	10.412	11.322	21.255	1.00	0.00
ATOM	860	N	PHE	57	9.193	1.614	22.441	1.00	0.00
ATOM	861	CA	PHE	57	8.514	0.457	23.029	1.00	0.00
ATOM	869	C	PHE	57	9.022	-0.849	22.417	1.00	0.00
ATOM	870	O	PHE	57	8.298	-1.525	21.688	1.00	0.00
ATOM	862	CB	PHE	57	7.006	0.590	22.779	1.00	0.00
ATOM	863	CG	PHE	57	6.125	0.056	23.877	1.00	0.00
ATOM	864	CD1	PHE	57	6.647	-0.680	24.933	1.00	0.00
ATOM	865	CD2	PHE	57	4.760	0.292	23.843	1.00	0.00
ATOM	866	CE1	PHE	57	5.820	-1.166	25.931	1.00	0.00
ATOM	867	CE2	PHE	57	3.931	-0.191	24.835	1.00	0.00
ATOM	868	CZ	PHE	57	4.459	-0.921	25.879	1.00	0.00
ATOM	871	H	PHE	57	8.761	2.068	21.683	1.00	0.00
ATOM	872	HA	PHE	57	8.701	0.454	24.091	1.00	0.00
ATOM	873	1HB	PHE	57	6.756	0.062	21.869	1.00	0.00
ATOM	874	2HB	PHE	57	6.766	1.635	22.650	1.00	0.00
ATOM	875	HD1	PHE	57	4.343	0.863	23.027	1.00	0.00
ATOM	876	HD2	PHE	57	7.710	-0.871	24.972	1.00	0.00
ATOM	877	HE1	PHE	57	2.870	0.001	24.794	1.00	0.00
ATOM	878	HE2	PHE	57	6.236	-1.738	26.748	1.00	0.00
ATOM	879	HZ	PHE	57	3.809	-1.301	26.655	1.00	0.00
ATOM	880	N	ARG	58	10.268	-1.196	22.709	1.00	0.00
ATOM	881	CA	ARG	58	10.869	-2.415	22.171	1.00	0.00
ATOM	889	C	ARG	58	10.332	-3.668	22.861	1.00	0.00
ATOM	890	O	ARG	58	10.329	-4.758	22.284	1.00	0.00
ATOM	882	CB	ARG	58	12.387	-2.362	22.322	1.00	0.00
ATOM	883	CG	ARG	58	13.079	-1.558	21.236	1.00	0.00
ATOM	884	CD	ARG	58	14.111	-0.611	21.821	1.00	0.00
ATOM	885	NE	ARG	58	14.866	0.077	20.776	1.00	0.00
ATOM	886	CZ	ARG	58	16.160	-0.120	20.536	1.00	0.00
ATOM	887	NH1	ARG	58	16.858	-0.971	21.281	1.00	0.00
ATOM	888	NH2	ARG	58	16.753	0.533	19.541	1.00	0.00
ATOM	891	H	ARG	58	10.803	-0.612	23.291	1.00	0.00
ATOM	892	HA	ARG	58	10.626	-2.467	21.120	1.00	0.00
ATOM	893	1HB	ARG	58	12.773	-3.368	22.299	1.00	0.00
ATOM	894	2HB	ARG	58	12.625	-1.916	23.277	1.00	0.00
ATOM	895	1HG	ARG	58	12.339	-0.984	20.698	1.00	0.00
ATOM	896	2HG	ARG	58	13.573	-2.238	20.559	1.00	0.00
ATOM	897	1HD	ARG	58	14.796	-1.178	22.434	1.00	0.00
ATOM	898	2HD	ARG	58	13.605	0.123	22.432	1.00	0.00
ATOM	899	HE	ARG	58	14.371	0.723	20.220	1.00	0.00
ATOM	900	1HH1	ARG	58	16.410	-1.477	22.034	1.00	0.00
ATOM	901	2HH1	ARG	58	17.842	-1.110	21.110	1.00	0.00
ATOM	902	1HH2	ARG	58	16.226	1.171	18.971	1.00	0.00
ATOM	903	2HH2	ARG	58	17.727	0.395	19.356	1.00	0.00
ATOM	904	N	ARG	59	9.886	-3.511	24.099	1.00	0.00
ATOM	905	CA	ARG	59	9.357	-4.630	24.872	1.00	0.00
ATOM	913	C	ARG	59	7.898	-4.907	24.514	1.00	0.00
ATOM	914	O	ARG	59	7.012	-4.793	25.355	1.00	0.00
ATOM	906	CB	ARG	59	9.493	-4.348	26.372	1.00	0.00
ATOM	907	CG	ARG	59	10.909	-4.526	26.895	1.00	0.00
ATOM	908	CD	ARG	59	10.914	-5.129	28.288	1.00	0.00
ATOM	909	NE	ARG	59	12.159	-4.854	29.004	1.00	0.00
ATOM	910	CZ	ARG	59	12.285	-4.907	30.329	1.00	0.00
ATOM	911	NH1	ARG	59	11.244	-5.217	31.092	1.00	0.00
ATOM	912	NH2	ARG	59	13.454	-4.645	30.894	1.00	0.00
ATOM	915	H	ARG	59	9.919	-2.622	24.505	1.00	0.00
ATOM	916	HA	ARG	59	9.944	-5.503	24.628	1.00	0.00
ATOM	917	1HB	ARG	59	8.845	-5.020	26.913	1.00	0.00
ATOM	918	2HB	ARG	59	9.186	-3.330	26.566	1.00	0.00
ATOM	919	1HG	ARG	59	11.395	-3.563	26.926	1.00	0.00
ATOM	920	2HG	ARG	59	11.447	-5.182	26.227	1.00	0.00
ATOM	921	1HD	ARG	59	10.788	-6.198	28.203	1.00	0.00
ATOM	922	2HD	ARG	59	10.089	-4.715	28.849	1.00	0.00
ATOM	923	HE	ARG	59	12.953	-4.617	28.462	1.00	0.00
ATOM	924	1HH1	ARG	59	10.348	-5.415	30.677	1.00	0.00
ATOM	925	2HH1	ARG	59	11.349	-5.264	32.092	1.00	0.00
ATOM	926	1HH2	ARG	59	14.247	-4.405	30.325	1.00	0.00



ATOM	927	2HH2	ARG	59	13.550	-4.682	31.896	1.00	0.00
ATOM	928	N	THR	60	7.661	-5.255	23.257	1.00	0.00
ATOM	929	CA	THR	60	6.316	-5.535	22.776	1.00	0.00
ATOM	933	C	THR	60	6.198	-6.964	22.238	1.00	0.00
ATOM	934	O	THR	60	5.136	-7.584	22.302	1.00	0.00
ATOM	930	CB	THR	60	5.939	-4.546	21.662	1.00	0.00
ATOM	931	OG1	THR	60	7.136	-4.057	21.039	1.00	0.00
ATOM	932	CG2	THR	60	5.137	-3.380	22.220	1.00	0.00
ATOM	935	H	THR	60	8.414	-5.310	22.626	1.00	0.00
ATOM	936	HA	THR	60	5.625	-5.406	23.595	1.00	0.00
ATOM	937	HB	THR	60	5.339	-5.061	20.925	1.00	0.00
ATOM	938	HG1	THR	60	7.230	-3.111	21.214	1.00	0.00
ATOM	939	1HG2	THR	60	5.678	-2.459	22.054	1.00	0.00
ATOM	940	2HG2	THR	60	4.982	-3.519	23.281	1.00	0.00
ATOM	941	3HG2	THR	60	4.181	-3.329	21.721	1.00	0.00
ATOM	942	N	PHE	61	7.299	-7.473	21.692	1.00	0.00
ATOM	943	CA	PHE	61	7.329	-8.818	21.117	1.00	0.00
ATOM	951	C	PHE	61	7.299	-9.905	22.191	1.00	0.00
ATOM	952	O	PHE	61	7.011	-11.064	21.901	1.00	0.00
ATOM	944	CB	PHE	61	8.572	-8.983	20.240	1.00	0.00
ATOM	945	CG	PHE	61	8.459	-8.305	18.903	1.00	0.00
ATOM	946	CD1	PHE	61	8.662	-6.938	18.783	1.00	0.00
ATOM	947	CD2	PHE	61	8.147	-9.034	17.766	1.00	0.00
ATOM	948	CE1	PHE	61	8.557	-6.313	17.555	1.00	0.00
ATOM	949	CE2	PHE	61	8.041	-8.414	16.537	1.00	0.00
ATOM	950	CZ	PHE	61	8.246	-7.052	16.430	1.00	0.00
ATOM	953	H	PHE	61	8.111	-6.925	21.660	1.00	0.00
ATOM	954	HA	PHE	61	6.454	-8.928	20.497	1.00	0.00
ATOM	955	1HB	PHE	61	8.746	-10.035	20.069	1.00	0.00
ATOM	956	2HB	PHE	61	9.422	-8.562	20.755	1.00	0.00
ATOM	957	HD1	PHE	61	7.987	-10.099	17.848	1.00	0.00
ATOM	958	HD2	PHE	61	8.905	-6.360	19.661	1.00	0.00
ATOM	959	HE1	PHE	61	7.798	-8.994	15.658	1.00	0.00
ATOM	960	HE2	PHE	61	8.718	-5.248	17.475	1.00	0.00
ATOM	961	HZ	PHE	61	8.163	-6.566	15.469	1.00	0.00
ATOM	962	N	SER	62	7.599	-9.531	23.427	1.00	0.00
ATOM	963	CA	SER	62	7.611	-10.481	24.530	1.00	0.00
ATOM	966	C	SER	62	6.219	-11.044	24.798	1.00	0.00
ATOM	967	O	SER	62	6.064	-12.231	25.092	1.00	0.00
ATOM	964	CB	SER	62	8.154	-9.793	25.783	1.00	0.00
ATOM	965	OG	SER	62	8.233	-8.385	25.587	1.00	0.00
ATOM	968	H	SER	62	7.827	-8.594	23.604	1.00	0.00
ATOM	969	HA	SER	62	8.260	-11.295	24.258	1.00	0.00
ATOM	970	1HB	SER	62	9.143	-10.171	26.004	1.00	0.00
ATOM	971	2HB	SER	62	7.495	-9.994	26.615	1.00	0.00
ATOM	972	HG	SER	62	7.468	-7.964	26.008	1.00	0.00
ATOM	973	N	ASP	63	5.215	-10.187	24.701	1.00	0.00
ATOM	974	CA	ASP	63	3.837	-10.591	24.939	1.00	0.00
ATOM	979	C	ASP	63	3.325	-11.455	23.807	1.00	0.00
ATOM	980	O	ASP	63	2.409	-12.256	23.989	1.00	0.00
ATOM	975	CB	ASP	63	2.949	-9.359	25.118	1.00	0.00
ATOM	976	CG	ASP	63	3.154	-8.684	26.462	1.00	0.00
ATOM	977	OD1	ASP	63	4.313	-8.335	26.775	1.00	0.00
ATOM	978	OD2	ASP	63	2.161	-8.503	27.201	1.00	0.00
ATOM	981	H	ASP	63	5.404	-9.253	24.472	1.00	0.00
ATOM	982	HA	ASP	63	3.818	-11.178	25.841	1.00	0.00
ATOM	983	1HB	ASP	63	1.917	-9.659	25.036	1.00	0.00
ATOM	984	2HB	ASP	63	3.176	-8.644	24.340	1.00	0.00
ATOM	985	N	LEU	64	3.940	-11.313	22.648	1.00	0.00
ATOM	986	CA	LEU	64	3.568	-12.106	21.485	1.00	0.00
ATOM	991	C	LEU	64	3.926	-13.557	21.753	1.00	0.00
ATOM	992	O	LEU	64	3.159	-14.477	21.465	1.00	0.00
ATOM	987	CB	LEU	64	4.313	-11.616	20.240	1.00	0.00
ATOM	988	CG	LEU	64	3.686	-10.436	19.487	1.00	0.00
ATOM	989	CD1	LEU	64	2.780	-9.605	20.385	1.00	0.00
ATOM	990	CD2	LEU	64	4.783	-9.568	18.899	1.00	0.00
ATOM	993	H	LEU	64	4.675	-10.672	22.577	1.00	0.00
ATOM	994	HA	LEU	64	2.503	-12.017	21.333	1.00	0.00
ATOM	995	1HB	LEU	64	4.396	-12.445	19.553	1.00	0.00
ATOM	996	2HB	LEU	64	5.309	-11.327	20.543	1.00	0.00
ATOM	997	HG	LEU	64	3.089	-10.815	18.671	1.00	0.00
ATOM	998	1HD1	LEU	64	2.063	-10.252	20.870	1.00	0.00
ATOM	999	2HD1	LEU	64	2.256	-8.874	19.787	1.00	0.00



ATOM	1000	3HD1	LEU	64	3.374	-9.102	21.133	1.00	0.00
ATOM	1001	1HD2	LEU	64	4.452	-9.159	17.955	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.668	-10.165	18.740	1.00	0.00
ATOM	1003	3HD2	LEU	64	5.010	-8.762	19.581	1.00	0.00
ATOM	1004	N	ALA	65	5.098	-13.742	22.345	1.00	0.00
ATOM	1005	CA	ALA	65	5.585	-15.063	22.690	1.00	0.00
ATOM	1007	C	ALA	65	4.811	-15.613	23.874	1.00	0.00
ATOM	1008	O	ALA	65	4.335	-16.745	23.839	1.00	0.00
ATOM	1006	CB	ALA	65	7.073	-15.015	22.999	1.00	0.00
ATOM	1009	H	ALA	65	5.643	-12.956	22.571	1.00	0.00
ATOM	1010	HA	ALA	65	5.433	-15.710	21.839	1.00	0.00
ATOM	1011	1HB	ALA	65	7.402	-15.986	23.335	1.00	0.00
ATOM	1012	2HB	ALA	65	7.259	-14.284	23.773	1.00	0.00
ATOM	1013	3HB	ALA	65	7.618	-14.740	22.107	1.00	0.00
ATOM	1014	N	ALA	66	4.684	-14.794	24.914	1.00	0.00
ATOM	1015	CA	ALA	66	3.961	-15.178	26.123	1.00	0.00
ATOM	1017	C	ALA	66	2.562	-15.693	25.797	1.00	0.00
ATOM	1018	O	ALA	66	2.106	-16.686	26.366	1.00	0.00
ATOM	1016	CB	ALA	66	3.884	-14.000	27.075	1.00	0.00
ATOM	1019	H	ALA	66	5.089	-13.896	24.865	1.00	0.00
ATOM	1020	HA	ALA	66	4.516	-15.963	26.612	1.00	0.00
ATOM	1021	1HB	ALA	66	3.293	-14.272	27.938	1.00	0.00
ATOM	1022	2HB	ALA	66	3.422	-13.163	26.572	1.00	0.00
ATOM	1023	3HB	ALA	66	4.880	-13.726	27.391	1.00	0.00
ATOM	1024	N	GLN	67	1.891	-15.015	24.877	1.00	0.00
ATOM	1025	CA	GLN	67	0.542	-15.399	24.471	1.00	0.00
ATOM	1031	C	GLN	67	0.513	-16.748	23.764	1.00	0.00
ATOM	1032	O	GLN	67	-0.200	-17.662	24.176	1.00	0.00
ATOM	1026	CB	GLN	67	-0.052	-14.354	23.532	1.00	0.00
ATOM	1027	CG	GLN	67	-0.729	-13.199	24.238	1.00	0.00
ATOM	1028	CD	GLN	67	-1.091	-12.089	23.279	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.244	-11.949	22.878	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.102	-11.297	22.901	1.00	0.00
ATOM	1033	H	GLN	67	2.315	-14.229	24.460	1.00	0.00
ATOM	1034	HA	GLN	67	-0.069	-15.456	25.359	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.782	-14.835	22.896	1.00	0.00
ATOM	1036	2HB	GLN	67	0.738	-13.953	22.916	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.059	-12.806	24.988	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.632	-13.558	24.711	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.796	-11.476	23.260	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.305	-10.567	22.282	1.00	0.00
ATOM	1041	N	LEU	68	1.255	-16.849	22.669	1.00	0.00
ATOM	1042	CA	LEU	68	1.274	-18.066	21.863	1.00	0.00
ATOM	1047	C	LEU	68	2.235	-19.126	22.400	1.00	0.00
ATOM	1048	O	LEU	68	2.550	-20.087	21.703	1.00	0.00
ATOM	1043	CB	LEU	68	1.620	-17.723	20.411	1.00	0.00
ATOM	1044	CG	LEU	68	0.476	-17.110	19.588	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.880	-17.536	20.134	1.00	0.00
ATOM	1046	CD2	LEU	68	0.586	-15.592	19.568	1.00	0.00
ATOM	1049	H	LEU	68	1.777	-16.071	22.372	1.00	0.00
ATOM	1050	HA	LEU	68	0.277	-18.476	21.885	1.00	0.00
ATOM	1051	1HB	LEU	68	1.941	-18.628	19.917	1.00	0.00
ATOM	1052	2HB	LEU	68	2.445	-17.025	20.417	1.00	0.00
ATOM	1053	HG	LEU	68	0.549	-17.463	18.570	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.077	-17.014	21.061	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.877	-18.601	20.317	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.649	-17.297	19.416	1.00	0.00
ATOM	1057	1HD2	LEU	68	1.624	-15.304	19.662	1.00	0.00
ATOM	1058	2HD2	LEU	68	0.022	-15.179	20.393	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.191	-15.215	18.637	1.00	0.00
ATOM	1060	N	HIS	69	2.696	-18.959	23.631	1.00	0.00
ATOM	1061	CA	HIS	69	3.612	-19.925	24.226	1.00	0.00
ATOM	1068	C	HIS	69	2.850	-21.144	24.726	1.00	0.00
ATOM	1069	O	HIS	69	3.396	-22.245	24.796	1.00	0.00
ATOM	1062	CB	HIS	69	4.391	-19.297	25.383	1.00	0.00
ATOM	1063	CG	HIS	69	5.640	-20.043	25.732	1.00	0.00
ATOM	1064	ND1	HIS	69	6.793	-19.975	24.981	1.00	0.00
ATOM	1065	CD2	HIS	69	5.913	-20.880	26.760	1.00	0.00
ATOM	1066	CE1	HIS	69	7.719	-20.737	25.529	1.00	0.00
ATOM	1067	NE2	HIS	69	7.209	-21.297	26.608	1.00	0.00
ATOM	1070	H	HIS	69	2.422	-18.171	24.147	1.00	0.00
ATOM	1071	HA	HIS	69	4.307	-20.238	23.462	1.00	0.00
ATOM	1072	1HB	HIS	69	3.761	-19.272	26.261	1.00	0.00



ATOM	1073	2HB	HIS	69	4.668	-18.289	25.116	1.00	0.00
ATOM	1074	HD1	HIS	69	6.917	-19.437	24.155	1.00	0.00
ATOM	1075	HD2	HIS	69	5.233	-21.168	27.549	1.00	0.00
ATOM	1076	HE1	HIS	69	8.724	-20.879	25.159	1.00	0.00
ATOM	1077	HE2	HIS	69	7.663	-21.973	27.171	1.00	0.00
ATOM	1078	N	VAL	70	1.590	-20.939	25.071	1.00	0.00
ATOM	1079	CA	VAL	70	0.749	-22.022	25.563	1.00	0.00
ATOM	1083	C	VAL	70	0.010	-22.695	24.412	1.00	0.00
ATOM	1084	O	VAL	70	0.313	-23.832	24.050	1.00	0.00
ATOM	1080	CB	VAL	70	-0.279	-21.535	26.610	1.00	0.00
ATOM	1081	CG1	VAL	70	0.009	-22.160	27.966	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.292	-20.014	26.713	1.00	0.00
ATOM	1085	H	VAL	70	1.214	-20.038	24.990	1.00	0.00
ATOM	1086	HA	VAL	70	1.393	-22.750	26.035	1.00	0.00
ATOM	1087	HB	VAL	70	-1.260	-21.859	26.294	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.922	-22.422	28.446	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.545	-21.452	28.582	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.609	-23.048	27.834	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.902	-19.716	27.552	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.698	-19.595	25.804	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.717	-19.655	26.853	1.00	0.00
ATOM	1094	N	THR	71	-0.954	-21.986	23.842	1.00	0.00
ATOM	1095	CA	THR	71	-1.739	-22.502	22.733	1.00	0.00
ATOM	1099	C	THR	71	-2.471	-21.352	22.032	1.00	0.00
ATOM	1100	O	THR	71	-2.778	-20.334	22.657	1.00	0.00
ATOM	1096	CB	THR	71	-2.744	-23.589	23.218	1.00	0.00
ATOM	1097	OG1	THR	71	-2.707	-24.723	22.340	1.00	0.00
ATOM	1098	CG2	THR	71	-4.171	-23.062	23.310	1.00	0.00
ATOM	1101	H	THR	71	-1.145	-21.084	24.174	1.00	0.00
ATOM	1102	HA	THR	71	-1.056	-22.960	22.032	1.00	0.00
ATOM	1103	HB	THR	71	-2.438	-23.911	24.205	1.00	0.00
ATOM	1104	HG1	THR	71	-3.594	-24.905	22.014	1.00	0.00
ATOM	1105	1HG2	THR	71	-4.403	-22.494	22.420	1.00	0.00
ATOM	1106	2HG2	THR	71	-4.264	-22.427	24.176	1.00	0.00
ATOM	1107	3HG2	THR	71	-4.857	-23.891	23.396	1.00	0.00
ATOM	1108	N	PRO	72	-2.733	-21.485	20.723	1.00	0.00
ATOM	1109	CA	PRO	72	-3.410	-20.457	19.938	1.00	0.00
ATOM	1113	C	PRO	72	-4.928	-20.490	20.120	1.00	0.00
ATOM	1114	O	PRO	72	-5.466	-21.371	20.792	1.00	0.00
ATOM	1110	CB	PRO	72	-3.042	-20.805	18.486	1.00	0.00
ATOM	1111	CG	PRO	72	-2.153	-22.009	18.551	1.00	0.00
ATOM	1112	CD	PRO	72	-2.379	-22.638	19.894	1.00	0.00
ATOM	1115	HA	PRO	72	-3.041	-19.471	20.178	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.530	-19.967	18.037	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.944	-21.016	17.930	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.121	-21.707	18.449	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.419	-22.702	17.767	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.475	-23.110	20.251	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.190	-23.350	19.848	1.00	0.00
ATOM	1122	N	GLY	73	-5.616	-19.532	19.508	1.00	0.00
ATOM	1123	CA	GLY	73	-7.064	-19.480	19.606	1.00	0.00
ATOM	1124	C	GLY	73	-7.546	-18.591	20.735	1.00	0.00
ATOM	1125	O	GLY	73	-8.183	-17.562	20.495	1.00	0.00
ATOM	1126	H	GLY	73	-5.138	-18.858	18.978	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.437	-20.482	19.767	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.464	-19.108	18.675	1.00	0.00
ATOM	1129	N	SER	74	-7.243	-18.987	21.963	1.00	0.00
ATOM	1130	CA	SER	74	-7.647	-18.240	23.153	1.00	0.00
ATOM	1133	C	SER	74	-6.812	-16.969	23.341	1.00	0.00
ATOM	1134	O	SER	74	-6.349	-16.664	24.441	1.00	0.00
ATOM	1131	CB	SER	74	-7.526	-19.148	24.375	1.00	0.00
ATOM	1132	OG	SER	74	-7.254	-20.487	23.979	1.00	0.00
ATOM	1135	H	SER	74	-6.735	-19.820	22.083	1.00	0.00
ATOM	1136	HA	SER	74	-8.683	-17.953	23.033	1.00	0.00
ATOM	1137	1HB	SER	74	-8.454	-19.129	24.930	1.00	0.00
ATOM	1138	2HB	SER	74	-6.720	-18.800	25.004	1.00	0.00
ATOM	1139	HG	SER	74	-6.711	-20.916	24.658	1.00	0.00
ATOM	1140	N	ALA	75	-6.641	-16.224	22.262	1.00	0.00
ATOM	1141	CA	ALA	75	-5.886	-14.986	22.299	1.00	0.00
ATOM	1143	C	ALA	75	-6.824	-13.789	22.226	1.00	0.00
ATOM	1144	O	ALA	75	-6.447	-12.672	22.573	1.00	0.00
ATOM	1142	CB	ALA	75	-4.876	-14.946	21.163	1.00	0.00
ATOM	1145	H	ALA	75	-7.047	-16.514	21.415	1.00	0.00



ATOM	1146	HA	ALA	75	-5.346	-14.950	23.228	1.00	0.00
ATOM	1147	1HB	ALA	75	-5.344	-15.294	20.254	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.038	-15.583	21.404	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.530	-13.932	21.025	1.00	0.00
ATOM	1150	N	GLN	76	-8.051	-14.033	21.770	1.00	0.00
ATOM	1151	CA	GLN	76	-9.043	-12.971	21.642	1.00	0.00
ATOM	1157	C	GLN	76	-9.411	-12.383	22.989	1.00	0.00
ATOM	1158	O	GLN	76	-9.587	-11.173	23.108	1.00	0.00
ATOM	1152	CB	GLN	76	-10.289	-13.460	20.897	1.00	0.00
ATOM	1153	CG	GLN	76	-10.757	-14.843	21.298	1.00	0.00
ATOM	1154	CD	GLN	76	-11.993	-15.277	20.540	1.00	0.00
ATOM	1155	OE1	GLN	76	-13.053	-15.480	21.126	1.00	0.00
ATOM	1156	NE2	GLN	76	-11.866	-15.426	19.229	1.00	0.00
ATOM	1159	H	GLN	76	-8.291	-14.946	21.510	1.00	0.00
ATOM	1160	HA	GLN	76	-8.587	-12.186	21.055	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.078	-13.468	19.836	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.095	-12.769	21.084	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.978	-14.837	22.346	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.965	-15.550	21.102	1.00	0.00
ATOM	1165	1HE2	GLN	76	-10.991	-15.254	18.822	1.00	0.00
ATOM	1166	2HE2	GLN	76	-12.657	-15.706	18.717	1.00	0.00
ATOM	1167	N	GLN	77	-9.509	-13.227	24.003	1.00	0.00
ATOM	1168	CA	GLN	77	-9.842	-12.749	25.335	1.00	0.00
ATOM	1174	C	GLN	77	-8.683	-11.941	25.899	1.00	0.00
ATOM	1175	O	GLN	77	-8.884	-10.945	26.581	1.00	0.00
ATOM	1169	CB	GLN	77	-10.184	-13.915	26.267	1.00	0.00
ATOM	1170	CG	GLN	77	-11.235	-14.864	25.706	1.00	0.00
ATOM	1171	CD	GLN	77	-10.624	-16.100	25.073	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.714	-16.005	24.248	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.118	-17.268	25.454	1.00	0.00
ATOM	1176	H	GLN	77	-9.346	-14.190	23.856	1.00	0.00
ATOM	1177	HA	GLN	77	-10.699	-12.097	25.245	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.550	-13.517	27.202	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.284	-14.483	26.456	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.811	-14.339	24.958	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.887	-15.175	26.509	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.841	-17.270	26.118	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.741	-18.081	25.061	1.00	0.00
ATOM	1184	N	ARG	78	-7.467	-12.366	25.584	1.00	0.00
ATOM	1185	CA	ARG	78	-6.273	-11.670	26.044	1.00	0.00
ATOM	1193	C	ARG	78	-6.183	-10.302	25.388	1.00	0.00
ATOM	1194	O	ARG	78	-5.942	-9.293	26.054	1.00	0.00
ATOM	1186	CB	ARG	78	-5.022	-12.490	25.713	1.00	0.00
ATOM	1187	CG	ARG	78	-4.197	-12.872	26.927	1.00	0.00
ATOM	1188	CD	ARG	78	-3.360	-14.114	26.663	1.00	0.00
ATOM	1189	NE	ARG	78	-3.020	-14.811	27.903	1.00	0.00
ATOM	1190	CZ	ARG	78	-2.446	-16.013	27.958	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.125	-16.660	26.843	1.00	0.00
ATOM	1192	NH2	ARG	78	-2.199	-16.564	29.136	1.00	0.00
ATOM	1195	H	ARG	78	-7.371	-13.158	25.015	1.00	0.00
ATOM	1196	HA	ARG	78	-6.350	-11.539	27.112	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.396	-11.914	25.045	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.325	-13.398	25.212	1.00	0.00
ATOM	1199	1HG	ARG	78	-4.864	-13.067	27.756	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.539	-12.053	27.177	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.449	-13.822	26.161	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.921	-14.784	26.027	1.00	0.00
ATOM	1203	HE	ARG	78	-3.236	-14.354	28.747	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.316	-16.249	25.951	1.00	0.00
ATOM	1205	2HH1	ARG	78	-1.687	-17.559	26.891	1.00	0.00
ATOM	1206	1HH2	ARG	78	-2.447	-16.074	29.986	1.00	0.00
ATOM	1207	2HH2	ARG	78	-1.762	-17.470	29.199	1.00	0.00
ATOM	1208	N	PHE	79	-6.383	-10.284	24.077	1.00	0.00
ATOM	1209	CA	PHE	79	-6.329	-9.054	23.309	1.00	0.00
ATOM	1217	C	PHE	79	-7.397	-8.073	23.773	1.00	0.00
ATOM	1218	O	PHE	79	-7.107	-6.902	24.010	1.00	0.00
ATOM	1210	CB	PHE	79	-6.499	-9.353	21.819	1.00	0.00
ATOM	1211	CG	PHE	79	-6.044	-8.235	20.921	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.743	-7.759	20.986	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.919	-7.660	20.012	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.324	-6.731	20.161	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.504	-6.632	19.185	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.206	-6.167	19.261	1.00	0.00



ATOM	1219	H	PHE	79	-6.570	-11.129	23.613	1.00	0.00
ATOM	1220	HA	PHE	79	-5.360	-8.609	23.468	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.543	-9.541	21.615	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.926	-10.233	21.568	1.00	0.00
ATOM	1223	HD1	PHE	79	-4.053	-8.200	21.690	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.935	-8.024	19.952	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.308	-6.368	20.223	1.00	0.00
ATOM	1226	HE2	PHE	79	-7.196	-6.192	18.482	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.880	-5.363	18.616	1.00	0.00
ATOM	1228	N	THR	80	-8.634	-8.547	23.896	1.00	0.00
ATOM	1229	CA	THR	80	-9.732	-7.684	24.324	1.00	0.00
ATOM	1233	C	THR	80	-9.492	-7.090	25.716	1.00	0.00
ATOM	1234	O	THR	80	-9.892	-5.956	25.981	1.00	0.00
ATOM	1230	CB	THR	80	-11.088	-8.418	24.314	1.00	0.00
ATOM	1231	OG1	THR	80	-10.945	-9.752	24.814	1.00	0.00
ATOM	1232	CG2	THR	80	-11.671	-8.459	22.909	1.00	0.00
ATOM	1235	H	THR	80	-8.813	-9.494	23.681	1.00	0.00
ATOM	1236	HA	THR	80	-9.794	-6.870	23.616	1.00	0.00
ATOM	1237	HB	THR	80	-11.773	-7.880	24.952	1.00	0.00
ATOM	1238	HG1	THR	80	-10.571	-10.315	24.123	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.578	-7.484	22.452	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.713	-8.736	22.959	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.133	-9.186	22.318	1.00	0.00
ATOM	1242	N	GLN	81	-8.830	-7.842	26.599	1.00	0.00
ATOM	1243	CA	GLN	81	-8.551	-7.354	27.952	1.00	0.00
ATOM	1249	C	GLN	81	-7.647	-6.134	27.910	1.00	0.00
ATOM	1250	O	GLN	81	-7.990	-5.070	28.424	1.00	0.00
ATOM	1244	CB	GLN	81	-7.884	-8.441	28.797	1.00	0.00
ATOM	1245	CG	GLN	81	-8.823	-9.557	29.207	1.00	0.00
ATOM	1246	CD	GLN	81	-9.867	-9.111	30.212	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.559	-8.415	31.180	1.00	0.00
ATOM	1248	NE2	GLN	81	-11.108	-9.509	29.995	1.00	0.00
ATOM	1251	H	GLN	81	-8.518	-8.741	26.336	1.00	0.00
ATOM	1252	HA	GLN	81	-9.489	-7.079	28.407	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.485	-7.990	29.692	1.00	0.00
ATOM	1254	2HB	GLN	81	-7.074	-8.874	28.230	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.241	-10.357	29.643	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.325	-9.919	28.324	1.00	0.00
ATOM	1257	1HE2	GLN	81	-11.287	-10.064	29.206	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.800	-9.241	30.636	1.00	0.00
ATOM	1259	N	VAL	82	-6.484	-6.304	27.300	1.00	0.00
ATOM	1260	CA	VAL	82	-5.508	-5.226	27.193	1.00	0.00
ATOM	1264	C	VAL	82	-6.060	-4.053	26.381	1.00	0.00
ATOM	1265	O	VAL	82	-5.738	-2.899	26.652	1.00	0.00
ATOM	1261	CB	VAL	82	-4.181	-5.720	26.569	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.736	-7.008	27.237	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.296	-5.918	25.063	1.00	0.00
ATOM	1266	H	VAL	82	-6.275	-7.185	26.917	1.00	0.00
ATOM	1267	HA	VAL	82	-5.292	-4.876	28.200	1.00	0.00
ATOM	1268	HB	VAL	82	-3.429	-4.971	26.753	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.042	-6.779	28.031	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.254	-7.644	26.509	1.00	0.00
ATOM	1271	3HG1	VAL	82	-4.597	-7.517	27.647	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.406	-5.540	24.582	1.00	0.00
ATOM	1273	2HG2	VAL	82	-5.159	-5.382	24.694	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.406	-6.969	24.844	1.00	0.00
ATOM	1275	N	SER	83	-6.897	-4.354	25.394	1.00	0.00
ATOM	1276	CA	SER	83	-7.489	-3.319	24.557	1.00	0.00
ATOM	1279	C	SER	83	-8.424	-2.435	25.373	1.00	0.00
ATOM	1280	O	SER	83	-8.401	-1.209	25.241	1.00	0.00
ATOM	1277	CB	SER	83	-8.252	-3.944	23.387	1.00	0.00
ATOM	1278	OG	SER	83	-7.387	-4.700	22.559	1.00	0.00
ATOM	1281	H	SER	83	-7.123	-5.294	25.227	1.00	0.00
ATOM	1282	HA	SER	83	-6.687	-2.711	24.166	1.00	0.00
ATOM	1283	1HB	SER	83	-8.704	-3.161	22.795	1.00	0.00
ATOM	1284	2HB	SER	83	-9.022	-4.596	23.769	1.00	0.00
ATOM	1285	HG	SER	83	-7.099	-5.492	23.031	1.00	0.00
ATOM	1286	N	ASP	84	-9.235	-3.061	26.220	1.00	0.00
ATOM	1287	CA	ASP	84	-10.176	-2.328	27.061	1.00	0.00
ATOM	1292	C	ASP	84	-9.434	-1.442	28.051	1.00	0.00
ATOM	1293	O	ASP	84	-9.854	-0.325	28.334	1.00	0.00
ATOM	1288	CB	ASP	84	-11.105	-3.295	27.802	1.00	0.00
ATOM	1289	CG	ASP	84	-12.571	-3.007	27.538	1.00	0.00



ATOM	1290	OD1	ASP	84	-12.884	-2.351	26.520	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.417	-3.445	28.344	1.00	0.00
ATOM	1294	H	ASP	84	-9.199	-4.041	26.284	1.00	0.00
ATOM	1295	HA	ASP	84	-10.772	-1.699	26.415	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.925	-3.214	28.865	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.894	-4.303	27.482	1.00	0.00
ATOM	1298	N	GLU	85	-8.315	-1.939	28.560	1.00	0.00
ATOM	1299	CA	GLU	85	-7.504	-1.183	29.508	1.00	0.00
ATOM	1305	C	GLU	85	-6.765	-0.047	28.799	1.00	0.00
ATOM	1306	O	GLU	85	-6.498	1.002	29.386	1.00	0.00
ATOM	1300	CB	GLU	85	-6.504	-2.107	30.203	1.00	0.00
ATOM	1301	CG	GLU	85	-7.163	-3.223	30.996	1.00	0.00
ATOM	1302	CD	GLU	85	-7.631	-2.768	32.362	1.00	0.00
ATOM	1303	OE1	GLU	85	-8.713	-2.148	32.453	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.922	-3.026	33.352	1.00	0.00
ATOM	1307	H	GLU	85	-8.023	-2.836	28.289	1.00	0.00
ATOM	1308	HA	GLU	85	-8.165	-0.760	30.249	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.897	-1.522	30.878	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.866	-2.556	29.455	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.451	-4.026	31.124	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.016	-3.584	30.443	1.00	0.00
ATOM	1313	N	LEU	86	-6.440	-0.259	27.531	1.00	0.00
ATOM	1314	CA	LEU	86	-5.736	0.744	26.745	1.00	0.00
ATOM	1319	C	LEU	86	-6.678	1.879	26.344	1.00	0.00
ATOM	1320	O	LEU	86	-6.273	3.037	26.281	1.00	0.00
ATOM	1315	CB	LEU	86	-5.106	0.111	25.500	1.00	0.00
ATOM	1316	CG	LEU	86	-3.574	0.083	25.495	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.057	-1.256	25.996	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.035	0.370	24.101	1.00	0.00
ATOM	1321	H	LEU	86	-6.678	-1.116	27.114	1.00	0.00
ATOM	1322	HA	LEU	86	-4.951	1.153	27.365	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.438	0.662	24.633	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.466	-0.906	25.420	1.00	0.00
ATOM	1325	HG	LEU	86	-3.204	0.850	26.158	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.868	-1.970	26.020	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.653	-1.137	26.990	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.283	-1.615	25.333	1.00	0.00
ATOM	1329	1HD2	LEU	86	-1.964	0.212	24.089	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.251	1.394	23.834	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.504	-0.294	23.389	1.00	0.00
ATOM	1332	N	PHE	87	-7.930	1.537	26.077	1.00	0.00
ATOM	1333	CA	PHE	87	-8.937	2.521	25.681	1.00	0.00
ATOM	1341	C	PHE	87	-9.648	3.091	26.915	1.00	0.00
ATOM	1342	O	PHE	87	-10.360	4.093	26.827	1.00	0.00
ATOM	1334	CB	PHE	87	-9.940	1.849	24.723	1.00	0.00
ATOM	1335	CG	PHE	87	-11.223	2.606	24.497	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.302	3.585	23.521	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.351	2.334	25.258	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.478	4.281	23.310	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.528	3.028	25.052	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.592	4.002	24.077	1.00	0.00
ATOM	1343	H	PHE	87	-8.192	0.591	26.145	1.00	0.00
ATOM	1344	HA	PHE	87	-8.435	3.324	25.162	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.198	0.876	25.118	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.468	1.719	23.762	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.432	3.806	22.921	1.00	0.00
ATOM	1348	HD2	PHE	87	-12.303	1.572	26.022	1.00	0.00
ATOM	1349	HE1	PHE	87	-12.525	5.042	22.546	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.397	2.808	25.654	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.511	4.545	23.913	1.00	0.00
ATOM	1352	N	GLN	88	-9.440	2.419	28.048	1.00	0.00
ATOM	1353	CA	GLN	88	-10.045	2.763	29.344	1.00	0.00
ATOM	1359	C	GLN	88	-10.247	4.263	29.554	1.00	0.00
ATOM	1360	O	GLN	88	-11.376	4.715	29.745	1.00	0.00
ATOM	1354	CB	GLN	88	-9.186	2.195	30.480	1.00	0.00
ATOM	1355	CG	GLN	88	-9.708	2.510	31.873	1.00	0.00
ATOM	1356	CD	GLN	88	-8.633	3.085	32.775	1.00	0.00
ATOM	1357	OE1	GLN	88	-8.266	4.256	32.656	1.00	0.00
ATOM	1358	NE2	GLN	88	-8.115	2.264	33.678	1.00	0.00
ATOM	1361	H	GLN	88	-8.868	1.628	28.009	1.00	0.00
ATOM	1362	HA	GLN	88	-11.011	2.285	29.382	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.188	2.599	30.395	1.00	0.00
ATOM	1364	2HB	GLN	88	-9.137	1.122	30.373	1.00	0.00



ATOM	1365	1HG	GLN	88	-10.084	1.601	32.319	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.509	3.230	31.790	1.00	0.00
ATOM	1367	1HE2	GLN	88	-8.449	1.338	33.714	1.00	0.00
ATOM	1368	2HE2	GLN	88	-7.420	2.612	34.279	1.00	0.00
ATOM	1369	N	GLY	89	-9.170	5.032	29.543	1.00	0.00
ATOM	1370	CA	GLY	89	-9.314	6.452	29.764	1.00	0.00
ATOM	1371	C	GLY	89	-8.360	7.303	28.959	1.00	0.00
ATOM	1372	O	GLY	89	-7.546	8.028	29.530	1.00	0.00
ATOM	1373	H	GLY	89	-8.287	4.636	29.406	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.154	6.653	30.814	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.324	6.737	29.511	1.00	0.00
ATOM	1376	N	GLY	90	-8.467	7.250	27.638	1.00	0.00
ATOM	1377	CA	GLY	90	-7.605	8.079	26.821	1.00	0.00
ATOM	1378	C	GLY	90	-7.070	7.408	25.571	1.00	0.00
ATOM	1379	O	GLY	90	-5.872	7.157	25.482	1.00	0.00
ATOM	1380	H	GLY	90	-9.144	6.669	27.224	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.768	8.397	27.425	1.00	0.00
ATOM	1382	2HA	GLY	90	-8.159	8.956	26.523	1.00	0.00
ATOM	1383	N	PRO	91	-7.917	7.148	24.557	1.00	0.00
ATOM	1384	CA	PRO	91	-7.472	6.549	23.296	1.00	0.00
ATOM	1388	C	PRO	91	-6.745	7.567	22.418	1.00	0.00
ATOM	1389	O	PRO	91	-7.025	7.693	21.228	1.00	0.00
ATOM	1385	CB	PRO	91	-8.760	6.109	22.602	1.00	0.00
ATOM	1386	CG	PRO	91	-9.903	6.674	23.377	1.00	0.00
ATOM	1387	CD	PRO	91	-9.354	7.457	24.544	1.00	0.00
ATOM	1390	HA	PRO	91	-6.833	5.693	23.465	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.799	5.031	22.572	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.766	6.500	21.595	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.540	5.874	23.722	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.464	7.326	22.736	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.823	7.135	25.463	1.00	0.00
ATOM	1396	2HD	PRO	91	-9.515	8.513	24.393	1.00	0.00
ATOM	1397	N	ASN	92	-5.829	8.300	23.028	1.00	0.00
ATOM	1398	CA	ASN	92	-5.067	9.335	22.344	1.00	0.00
ATOM	1403	C	ASN	92	-4.141	8.759	21.283	1.00	0.00
ATOM	1404	O	ASN	92	-3.888	7.554	21.256	1.00	0.00
ATOM	1399	CB	ASN	92	-4.263	10.135	23.366	1.00	0.00
ATOM	1400	CG	ASN	92	-4.636	11.604	23.371	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.573	12.275	22.344	1.00	0.00
ATOM	1402	ND2	ASN	92	-5.016	12.115	24.531	1.00	0.00
ATOM	1405	H	ASN	92	-5.670	8.146	23.981	1.00	0.00
ATOM	1406	HA	ASN	92	-5.771	9.997	21.865	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.211	10.050	23.133	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.443	9.733	24.352	1.00	0.00
ATOM	1409	1HD2	ASN	92	-5.035	11.527	25.315	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.267	13.063	24.558	1.00	0.00
ATOM	1411	N	TRP	93	-3.641	9.633	20.410	1.00	0.00
ATOM	1412	CA	TRP	93	-2.739	9.233	19.329	1.00	0.00
ATOM	1423	C	TRP	93	-1.519	8.487	19.868	1.00	0.00
ATOM	1424	O	TRP	93	-0.965	7.632	19.182	1.00	0.00
ATOM	1413	CB	TRP	93	-2.298	10.454	18.514	1.00	0.00
ATOM	1414	CG	TRP	93	-3.406	11.432	18.225	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.532	12.694	18.735	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.541	11.238	17.360	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.668	13.292	18.245	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.302	12.422	17.402	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.992	10.183	16.553	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.479	12.582	16.677	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.164	10.350	15.832	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.891	11.541	15.900	1.00	0.00
ATOM	1425	H	TRP	93	-3.889	10.579	20.494	1.00	0.00
ATOM	1426	HA	TRP	93	-3.283	8.564	18.678	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.895	10.116	17.567	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.526	10.979	19.057	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.833	13.143	19.425	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.979	14.207	18.458	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.442	9.256	16.488	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.053	13.496	16.716	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.530	9.554	15.200	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.800	11.624	15.321	1.00	0.00
ATOM	1435	N	GLY	94	-1.124	8.788	21.106	1.00	0.00
ATOM	1436	CA	GLY	94	0.005	8.107	21.708	1.00	0.00
ATOM	1437	C	GLY	94	-0.292	6.632	21.897	1.00	0.00



ATOM	1438	O	GLY	94	0.584	5.779	21.762	1.00	0.00
ATOM	1439	H	GLY	94	-1.614	9.461	21.623	1.00	0.00
ATOM	1440	1HA	GLY	94	0.213	8.549	22.671	1.00	0.00
ATOM	1441	2HA	GLY	94	0.870	8.225	21.071	1.00	0.00
ATOM	1442	N	ARG	95	-1.551	6.337	22.191	1.00	0.00
ATOM	1443	CA	ARG	95	-2.003	4.968	22.380	1.00	0.00
ATOM	1451	C	ARG	95	-2.374	4.345	21.043	1.00	0.00
ATOM	1452	O	ARG	95	-2.276	3.132	20.872	1.00	0.00
ATOM	1444	CB	ARG	95	-3.205	4.919	23.328	1.00	0.00
ATOM	1445	CG	ARG	95	-2.869	4.442	24.731	1.00	0.00
ATOM	1446	CD	ARG	95	-3.335	5.439	25.782	1.00	0.00
ATOM	1447	NE	ARG	95	-4.324	4.862	26.695	1.00	0.00
ATOM	1448	CZ	ARG	95	-4.746	5.453	27.814	1.00	0.00
ATOM	1449	NH1	ARG	95	-4.320	6.671	28.124	1.00	0.00
ATOM	1450	NH2	ARG	95	-5.612	4.833	28.609	1.00	0.00
ATOM	1453	H	ARG	95	-2.201	7.066	22.265	1.00	0.00
ATOM	1454	HA	ARG	95	-1.187	4.406	22.801	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.946	4.250	22.913	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.631	5.909	23.401	1.00	0.00
ATOM	1457	1HG	ARG	95	-1.799	4.320	24.812	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.357	3.496	24.907	1.00	0.00
ATOM	1459	1HD	ARG	95	-3.773	6.290	25.282	1.00	0.00
ATOM	1460	2HD	ARG	95	-2.479	5.763	26.356	1.00	0.00
ATOM	1461	HE	ARG	95	-4.688	3.974	26.461	1.00	0.00
ATOM	1462	1HH1	ARG	95	-3.685	7.145	27.518	1.00	0.00
ATOM	1463	2HH1	ARG	95	-4.625	7.121	28.971	1.00	0.00
ATOM	1464	1HH2	ARG	95	-5.950	3.918	28.367	1.00	0.00
ATOM	1465	2HH2	ARG	95	-5.922	5.269	29.455	1.00	0.00
ATOM	1466	N	LEU	96	-2.797	5.189	20.104	1.00	0.00
ATOM	1467	CA	LEU	96	-3.186	4.743	18.766	1.00	0.00
ATOM	1472	C	LEU	96	-2.054	3.957	18.113	1.00	0.00
ATOM	1473	O	LEU	96	-2.285	3.028	17.331	1.00	0.00
ATOM	1468	CB	LEU	96	-3.555	5.954	17.899	1.00	0.00
ATOM	1469	CG	LEU	96	-4.791	5.798	16.999	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.401	5.972	15.545	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.468	4.451	17.206	1.00	0.00
ATOM	1474	H	LEU	96	-2.848	6.147	20.317	1.00	0.00
ATOM	1475	HA	LEU	96	-4.050	4.102	18.866	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.709	6.180	17.266	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.723	6.796	18.554	1.00	0.00
ATOM	1478	HG	LEU	96	-5.503	6.573	17.246	1.00	0.00
ATOM	1479	1HD1	LEU	96	-4.949	6.801	15.121	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.635	5.070	15.000	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.340	6.169	15.476	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.506	4.522	16.917	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.401	4.170	18.247	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.977	3.705	16.599	1.00	0.00
ATOM	1485	N	VAL	97	-0.829	4.320	18.469	1.00	0.00
ATOM	1486	CA	VAL	97	0.347	3.647	17.948	1.00	0.00
ATOM	1490	C	VAL	97	0.390	2.219	18.457	1.00	0.00
ATOM	1491	O	VAL	97	0.431	1.268	17.679	1.00	0.00
ATOM	1487	CB	VAL	97	1.642	4.351	18.374	1.00	0.00
ATOM	1488	CG1	VAL	97	2.791	3.853	17.527	1.00	0.00
ATOM	1489	CG2	VAL	97	1.501	5.861	18.268	1.00	0.00
ATOM	1492	H	VAL	97	-0.719	5.050	19.122	1.00	0.00
ATOM	1493	HA	VAL	97	0.300	3.646	16.862	1.00	0.00
ATOM	1494	HB	VAL	97	1.846	4.098	19.405	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.815	2.774	17.549	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.721	4.243	17.916	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.660	4.189	16.508	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.581	6.300	19.252	1.00	0.00
ATOM	1499	2HG2	VAL	97	0.539	6.103	17.842	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.284	6.252	17.635	1.00	0.00
ATOM	1501	N	ALA	98	0.362	2.084	19.779	1.00	0.00
ATOM	1502	CA	ALA	98	0.389	0.781	20.425	1.00	0.00
ATOM	1504	C	ALA	98	-0.821	-0.054	20.027	1.00	0.00
ATOM	1505	O	ALA	98	-0.738	-1.276	19.971	1.00	0.00
ATOM	1503	CB	ALA	98	0.451	0.943	21.935	1.00	0.00
ATOM	1506	H	ALA	98	0.315	2.888	20.336	1.00	0.00
ATOM	1507	HA	ALA	98	1.287	0.270	20.105	1.00	0.00
ATOM	1508	1HB	ALA	98	1.135	0.217	22.348	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.533	0.789	22.353	1.00	0.00
ATOM	1510	3HB	ALA	98	0.793	1.938	22.177	1.00	0.00



ATOM	1511	N	PHE	99	-1.934	0.616	19.745	1.00	0.00
ATOM	1512	CA	PHE	99	-3.161	-0.055	19.342	1.00	0.00
ATOM	1520	C	PHE	99	-2.914	-0.927	18.116	1.00	0.00
ATOM	1521	O	PHE	99	-3.145	-2.137	18.140	1.00	0.00
ATOM	1513	CB	PHE	99	-4.243	0.982	19.011	1.00	0.00
ATOM	1514	CG	PHE	99	-5.080	1.461	20.173	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.555	0.587	21.140	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.406	2.803	20.278	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.340	1.052	22.187	1.00	0.00
ATOM	1518	CE2	PHE	99	-6.182	3.272	21.318	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.652	2.400	22.274	1.00	0.00
ATOM	1522	H	PHE	99	-1.932	1.596	19.805	1.00	0.00
ATOM	1523	HA	PHE	99	-3.486	-0.679	20.157	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.908	0.562	18.276	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.765	1.850	18.585	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.310	-0.462	21.075	1.00	0.00
ATOM	1527	HD2	PHE	99	-5.041	3.493	19.531	1.00	0.00
ATOM	1528	HE1	PHE	99	-6.707	0.365	22.935	1.00	0.00
ATOM	1529	HE2	PHE	99	-6.422	4.323	21.381	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.267	2.771	23.087	1.00	0.00
ATOM	1531	N	PHE	100	-2.445	-0.300	17.042	1.00	0.00
ATOM	1532	CA	PHE	100	-2.175	-1.018	15.802	1.00	0.00
ATOM	1540	C	PHE	100	-0.899	-1.843	15.909	1.00	0.00
ATOM	1541	O	PHE	100	-0.809	-2.936	15.347	1.00	0.00
ATOM	1533	CB	PHE	100	-2.070	-0.045	14.629	1.00	0.00
ATOM	1534	CG	PHE	100	-3.386	0.207	13.950	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.361	0.973	14.565	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.649	-0.326	12.698	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.571	1.204	13.946	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.861	-0.098	12.075	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.824	0.668	12.701	1.00	0.00
ATOM	1542	H	PHE	100	-2.284	0.671	17.084	1.00	0.00
ATOM	1543	HA	PHE	100	-3.003	-1.688	15.626	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.388	-0.449	13.895	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.692	0.900	14.985	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.896	-0.925	12.208	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.165	1.396	15.541	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.054	-0.519	11.100	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.324	1.804	14.437	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.773	0.847	12.217	1.00	0.00
ATOM	1551	N	VAL	101	0.082	-1.317	16.629	1.00	0.00
ATOM	1552	CA	VAL	101	1.354	-2.001	16.807	1.00	0.00
ATOM	1556	C	VAL	101	1.163	-3.339	17.522	1.00	0.00
ATOM	1557	O	VAL	101	1.814	-4.326	17.173	1.00	0.00
ATOM	1553	CB	VAL	101	2.369	-1.116	17.579	1.00	0.00
ATOM	1554	CG1	VAL	101	3.375	-1.951	18.361	1.00	0.00
ATOM	1555	CG2	VAL	101	3.092	-0.184	16.616	1.00	0.00
ATOM	1558	H	VAL	101	-0.051	-0.439	17.051	1.00	0.00
ATOM	1559	HA	VAL	101	1.761	-2.194	15.822	1.00	0.00
ATOM	1560	HB	VAL	101	1.819	-0.507	18.281	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.074	-1.999	19.397	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.352	-1.498	18.290	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.409	-2.949	17.949	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.487	-0.036	15.734	1.00	0.00
ATOM	1565	2HG2	VAL	101	4.039	-0.622	16.335	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.265	0.767	17.098	1.00	0.00
ATOM	1567	N	PHE	102	0.268	-3.372	18.511	1.00	0.00
ATOM	1568	CA	PHE	102	0.008	-4.597	19.261	1.00	0.00
ATOM	1576	C	PHE	102	-0.402	-5.735	18.336	1.00	0.00
ATOM	1577	O	PHE	102	0.170	-6.823	18.387	1.00	0.00
ATOM	1569	CB	PHE	102	-1.082	-4.364	20.310	1.00	0.00
ATOM	1570	CG	PHE	102	-0.551	-4.118	21.696	1.00	0.00
ATOM	1571	CD1	PHE	102	0.794	-3.858	21.906	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.404	-4.144	22.786	1.00	0.00
ATOM	1573	CE1	PHE	102	1.277	-3.628	23.180	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.927	-3.916	24.062	1.00	0.00
ATOM	1575	CZ	PHE	102	0.415	-3.658	24.260	1.00	0.00
ATOM	1578	H	PHE	102	-0.233	-2.549	18.745	1.00	0.00
ATOM	1579	HA	PHE	102	0.922	-4.875	19.762	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.724	-5.232	20.349	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.667	-3.504	20.025	1.00	0.00
ATOM	1582	HD1	PHE	102	-2.454	-4.349	22.633	1.00	0.00
ATOM	1583	HD2	PHE	102	1.468	-3.835	21.064	1.00	0.00



ATOM	1584	HE1	PHE	102	-1.603	-3.939	24.904	1.00	0.00
ATOM	1585	HE2	PHE	102	2.327	-3.426	23.332	1.00	0.00
ATOM	1586	HZ	PHE	102	0.790	-3.477	25.256	1.00	0.00
ATOM	1587	N	GLY	103	-1.392	-5.480	17.495	1.00	0.00
ATOM	1588	CA	GLY	103	-1.859	-6.502	16.580	1.00	0.00
ATOM	1589	C	GLY	103	-0.904	-6.761	15.434	1.00	0.00
ATOM	1590	O	GLY	103	-0.693	-7.908	15.063	1.00	0.00
ATOM	1591	H	GLY	103	-1.812	-4.592	17.499	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.812	-6.207	16.179	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.989	-7.421	17.132	1.00	0.00
ATOM	1594	N	ALA	104	-0.325	-5.705	14.871	1.00	0.00
ATOM	1595	CA	ALA	104	0.610	-5.853	13.757	1.00	0.00
ATOM	1597	C	ALA	104	1.798	-6.718	14.156	1.00	0.00
ATOM	1598	O	ALA	104	2.238	-7.578	13.391	1.00	0.00
ATOM	1596	CB	ALA	104	1.080	-4.492	13.268	1.00	0.00
ATOM	1599	H	ALA	104	-0.531	-4.804	15.210	1.00	0.00
ATOM	1600	HA	ALA	104	0.085	-6.342	12.944	1.00	0.00
ATOM	1601	1HB	ALA	104	2.117	-4.553	12.974	1.00	0.00
ATOM	1602	2HB	ALA	104	0.975	-3.768	14.065	1.00	0.00
ATOM	1603	3HB	ALA	104	0.482	-4.184	12.422	1.00	0.00
ATOM	1604	N	ALA	105	2.303	-6.508	15.365	1.00	0.00
ATOM	1605	CA	ALA	105	3.420	-7.295	15.855	1.00	0.00
ATOM	1607	C	ALA	105	2.953	-8.715	16.153	1.00	0.00
ATOM	1608	O	ALA	105	3.641	-9.688	15.840	1.00	0.00
ATOM	1606	CB	ALA	105	4.025	-6.652	17.095	1.00	0.00
ATOM	1609	H	ALA	105	1.903	-5.819	15.946	1.00	0.00
ATOM	1610	HA	ALA	105	4.175	-7.327	15.081	1.00	0.00
ATOM	1611	1HB	ALA	105	4.759	-5.919	16.795	1.00	0.00
ATOM	1612	2HB	ALA	105	4.500	-7.411	17.701	1.00	0.00
ATOM	1613	3HB	ALA	105	3.248	-6.168	17.667	1.00	0.00
ATOM	1614	N	LEU	106	1.763	-8.813	16.741	1.00	0.00
ATOM	1615	CA	LEU	106	1.155	-10.096	17.082	1.00	0.00
ATOM	1620	C	LEU	106	0.971	-10.948	15.831	1.00	0.00
ATOM	1621	O	LEU	106	1.309	-12.134	15.806	1.00	0.00
ATOM	1616	CB	LEU	106	-0.203	-9.848	17.753	1.00	0.00
ATOM	1617	CG	LEU	106	-0.481	-10.663	19.016	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.995	-9.754	20.123	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.483	-11.770	18.732	1.00	0.00
ATOM	1622	H	LEU	106	1.267	-7.989	16.946	1.00	0.00
ATOM	1623	HA	LEU	106	1.809	-10.609	17.769	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.983	-10.054	17.034	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.255	-8.801	18.014	1.00	0.00
ATOM	1626	HG	LEU	106	0.439	-11.118	19.355	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.434	-8.830	20.119	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.874	-10.246	21.076	1.00	0.00
ATOM	1629	3HD1	LEU	106	-2.040	-9.540	19.956	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.781	-11.728	17.694	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.352	-11.639	19.361	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.031	-12.729	18.938	1.00	0.00
ATOM	1633	N	CYS	107	0.437	-10.321	14.798	1.00	0.00
ATOM	1634	CA	CYS	107	0.189	-10.975	13.524	1.00	0.00
ATOM	1637	C	CYS	107	1.488	-11.458	12.893	1.00	0.00
ATOM	1638	O	CYS	107	1.546	-12.561	12.353	1.00	0.00
ATOM	1635	CB	CYS	107	-0.535	-10.010	12.583	1.00	0.00
ATOM	1636	SG	CYS	107	-2.259	-9.698	13.029	1.00	0.00
ATOM	1639	H	CYS	107	0.196	-9.372	14.899	1.00	0.00
ATOM	1640	HA	CYS	107	-0.443	-11.830	13.703	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.519	-10.410	11.583	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.017	-9.061	12.588	1.00	0.00
ATOM	1643	HG	CYS	107	-2.684	-10.721	13.758	1.00	0.00
ATOM	1644	N	ALA	108	2.530	-10.634	12.968	1.00	0.00
ATOM	1645	CA	ALA	108	3.827	-10.987	12.407	1.00	0.00
ATOM	1647	C	ALA	108	4.317	-12.310	12.977	1.00	0.00
ATOM	1648	O	ALA	108	4.615	-13.244	12.234	1.00	0.00
ATOM	1646	CB	ALA	108	4.840	-9.880	12.669	1.00	0.00
ATOM	1649	H	ALA	108	2.420	-9.766	13.415	1.00	0.00
ATOM	1650	HA	ALA	108	3.710	-11.090	11.337	1.00	0.00
ATOM	1651	1HB	ALA	108	4.684	-9.076	11.965	1.00	0.00
ATOM	1652	2HB	ALA	108	5.839	-10.272	12.552	1.00	0.00
ATOM	1653	3HB	ALA	108	4.714	-9.508	13.675	1.00	0.00
ATOM	1654	N	GLU	109	4.382	-12.392	14.298	1.00	0.00
ATOM	1655	CA	GLU	109	4.826	-13.605	14.974	1.00	0.00
ATOM	1661	C	GLU	109	3.874	-14.773	14.716	1.00	0.00



ATOM	1662	O	GLU	109	4.267	-15.931	14.833	1.00	0.00
ATOM	1656	CB	GLU	109	4.953	-13.374	16.479	1.00	0.00
ATOM	1657	CG	GLU	109	6.306	-13.787	17.036	1.00	0.00
ATOM	1658	CD	GLU	109	6.188	-14.615	18.300	1.00	0.00
ATOM	1659	OE1	GLU	109	5.051	-14.939	18.701	1.00	0.00
ATOM	1660	OE2	GLU	109	7.232	-14.975	18.881	1.00	0.00
ATOM	1663	H	GLU	109	4.121	-11.615	14.836	1.00	0.00
ATOM	1664	HA	GLU	109	5.798	-13.860	14.578	1.00	0.00
ATOM	1665	1HB	GLU	109	4.190	-13.946	16.985	1.00	0.00
ATOM	1666	2HB	GLU	109	4.805	-12.325	16.688	1.00	0.00
ATOM	1667	1HG	GLU	109	6.877	-12.896	17.258	1.00	0.00
ATOM	1668	2HG	GLU	109	6.826	-14.369	16.291	1.00	0.00
ATOM	1669	N	SER	110	2.630	-14.478	14.354	1.00	0.00
ATOM	1670	CA	SER	110	1.658	-15.531	14.089	1.00	0.00
ATOM	1673	C	SER	110	1.912	-16.164	12.722	1.00	0.00
ATOM	1674	O	SER	110	1.692	-17.361	12.532	1.00	0.00
ATOM	1671	CB	SER	110	0.236	-14.973	14.174	1.00	0.00
ATOM	1672	OG	SER	110	-0.042	-14.475	15.472	1.00	0.00
ATOM	1675	H	SER	110	2.360	-13.538	14.266	1.00	0.00
ATOM	1676	HA	SER	110	1.781	-16.290	14.848	1.00	0.00
ATOM	1677	1HB	SER	110	-0.471	-15.759	13.944	1.00	0.00
ATOM	1678	2HB	SER	110	0.123	-14.169	13.461	1.00	0.00
ATOM	1679	HG	SER	110	0.588	-13.775	15.693	1.00	0.00
ATOM	1680	N	VAL	111	2.416	-15.369	11.780	1.00	0.00
ATOM	1681	CA	VAL	111	2.737	-15.873	10.447	1.00	0.00
ATOM	1685	C	VAL	111	4.073	-16.612	10.495	1.00	0.00
ATOM	1686	O	VAL	111	4.360	-17.475	9.665	1.00	0.00
ATOM	1682	CB	VAL	111	2.819	-14.740	9.397	1.00	0.00
ATOM	1683	CG1	VAL	111	2.888	-15.312	7.988	1.00	0.00
ATOM	1684	CG2	VAL	111	1.636	-13.795	9.521	1.00	0.00
ATOM	1687	H	VAL	111	2.599	-14.428	11.995	1.00	0.00
ATOM	1688	HA	VAL	111	1.961	-16.565	10.152	1.00	0.00
ATOM	1689	HB	VAL	111	3.724	-14.176	9.576	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.234	-14.748	7.340	1.00	0.00
ATOM	1691	2HG1	VAL	111	2.577	-16.346	8.004	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.902	-15.247	7.623	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.901	-12.967	10.163	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.795	-14.324	9.946	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.370	-13.422	8.543	1.00	0.00
ATOM	1696	N	ASN	112	4.878	-16.264	11.493	1.00	0.00
ATOM	1697	CA	ASN	112	6.186	-16.881	11.686	1.00	0.00
ATOM	1702	C	ASN	112	6.043	-18.186	12.462	1.00	0.00
ATOM	1703	O	ASN	112	7.014	-18.917	12.658	1.00	0.00
ATOM	1698	CB	ASN	112	7.118	-15.932	12.450	1.00	0.00
ATOM	1699	CG	ASN	112	7.745	-14.873	11.563	1.00	0.00
ATOM	1700	OD1	ASN	112	8.745	-15.117	10.892	1.00	0.00
ATOM	1701	ND2	ASN	112	7.160	-13.685	11.558	1.00	0.00
ATOM	1704	H	ASN	112	4.579	-15.576	12.122	1.00	0.00
ATOM	1705	HA	ASN	112	6.608	-17.091	10.716	1.00	0.00
ATOM	1706	1HB	ASN	112	7.910	-16.509	12.905	1.00	0.00
ATOM	1707	2HB	ASN	112	6.555	-15.433	13.225	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.360	-13.560	12.115	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.545	-12.976	11.001	1.00	0.00
ATOM	1710	N	LYS	113	4.822	-18.468	12.902	1.00	0.00
ATOM	1711	CA	LYS	113	4.528	-19.678	13.658	1.00	0.00
ATOM	1717	C	LYS	113	3.391	-20.454	12.995	1.00	0.00
ATOM	1718	O	LYS	113	3.183	-20.356	11.786	1.00	0.00
ATOM	1712	CB	LYS	113	4.139	-19.325	15.097	1.00	0.00
ATOM	1713	CG	LYS	113	5.302	-18.891	15.971	1.00	0.00
ATOM	1714	CD	LYS	113	4.833	-17.987	17.099	1.00	0.00
ATOM	1715	CE	LYS	113	5.311	-18.482	18.452	1.00	0.00
ATOM	1716	NZ	LYS	113	5.268	-17.408	19.479	1.00	0.00
ATOM	1719	H	LYS	113	4.093	-17.842	12.709	1.00	0.00
ATOM	1720	HA	LYS	113	5.416	-20.292	13.669	1.00	0.00
ATOM	1721	1HB	LYS	113	3.680	-20.190	15.553	1.00	0.00
ATOM	1722	2HB	LYS	113	3.418	-18.521	15.074	1.00	0.00
ATOM	1723	1HG	LYS	113	6.017	-18.356	15.364	1.00	0.00
ATOM	1724	2HG	LYS	113	5.769	-19.767	16.395	1.00	0.00
ATOM	1725	1HD	LYS	113	3.753	-17.959	17.097	1.00	0.00
ATOM	1726	2HD	LYS	113	5.220	-16.993	16.935	1.00	0.00
ATOM	1727	1HE	LYS	113	6.327	-18.834	18.352	1.00	0.00
ATOM	1728	2HE	LYS	113	4.676	-19.297	18.768	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.196	-17.323	19.946	1.00	0.00



ATOM	1730	2HZ	LYS	113	4.549	-17.620	20.194	1.00	0.00
ATOM	1731	3HZ	LYS	113	5.037	-16.486	19.032	1.00	0.00
ATOM	1732	N	GLU	114	2.650	-21.211	13.796	1.00	0.00
ATOM	1733	CA	GLU	114	1.528	-21.993	13.299	1.00	0.00
ATOM	1739	C	GLU	114	0.209	-21.371	13.759	1.00	0.00
ATOM	1740	O	GLU	114	-0.653	-22.047	14.325	1.00	0.00
ATOM	1734	CB	GLU	114	1.636	-23.444	13.782	1.00	0.00
ATOM	1735	CG	GLU	114	2.788	-24.211	13.145	1.00	0.00
ATOM	1736	CD	GLU	114	3.593	-25.010	14.152	1.00	0.00
ATOM	1737	OE1	GLU	114	4.127	-24.405	15.104	1.00	0.00
ATOM	1738	OE2	GLU	114	3.701	-26.246	13.991	1.00	0.00
ATOM	1741	H	GLU	114	2.859	-21.238	14.754	1.00	0.00
ATOM	1742	HA	GLU	114	1.564	-21.976	12.219	1.00	0.00
ATOM	1743	1HB	GLU	114	0.717	-23.959	13.545	1.00	0.00
ATOM	1744	2HB	GLU	114	1.776	-23.448	14.853	1.00	0.00
ATOM	1745	1HG	GLU	114	3.446	-23.505	12.658	1.00	0.00
ATOM	1746	2HG	GLU	114	2.387	-24.892	12.410	1.00	0.00
ATOM	1747	N	MET	115	0.069	-20.070	13.524	1.00	0.00
ATOM	1748	CA	MET	115	-1.130	-19.340	13.919	1.00	0.00
ATOM	1753	C	MET	115	-1.663	-18.519	12.750	1.00	0.00
ATOM	1754	O	MET	115	-1.827	-17.303	12.848	1.00	0.00
ATOM	1749	CB	MET	115	-0.828	-18.420	15.106	1.00	0.00
ATOM	1750	CG	MET	115	-0.604	-19.158	16.415	1.00	0.00
ATOM	1751	SD	MET	115	1.144	-19.348	16.819	1.00	0.00
ATOM	1752	CE	MET	115	1.159	-21.006	17.496	1.00	0.00
ATOM	1755	H	MET	115	0.798	-19.584	13.079	1.00	0.00
ATOM	1756	HA	MET	115	-1.880	-20.062	14.212	1.00	0.00
ATOM	1757	1HB	MET	115	-1.660	-17.742	15.239	1.00	0.00
ATOM	1758	2HB	MET	115	0.059	-17.846	14.884	1.00	0.00
ATOM	1759	1HG	MET	115	-1.049	-20.139	16.339	1.00	0.00
ATOM	1760	2HG	MET	115	-1.084	-18.608	17.210	1.00	0.00
ATOM	1761	1HE	MET	115	0.481	-21.059	18.334	1.00	0.00
ATOM	1762	2HE	MET	115	2.158	-21.252	17.826	1.00	0.00
ATOM	1763	3HE	MET	115	0.847	-21.707	16.736	1.00	0.00
ATOM	1764	N	GLU	116	-1.928	-19.196	11.641	1.00	0.00
ATOM	1765	CA	GLU	116	-2.432	-18.546	10.433	1.00	0.00
ATOM	1771	C	GLU	116	-3.807	-17.881	10.640	1.00	0.00
ATOM	1772	O	GLU	116	-3.972	-16.702	10.316	1.00	0.00
ATOM	1766	CB	GLU	116	-2.501	-19.546	9.270	1.00	0.00
ATOM	1767	CG	GLU	116	-1.405	-20.600	9.294	1.00	0.00
ATOM	1768	CD	GLU	116	-1.864	-21.894	9.931	1.00	0.00
ATOM	1769	OE1	GLU	116	-2.063	-21.913	11.163	1.00	0.00
ATOM	1770	OE2	GLU	116	-2.033	-22.892	9.203	1.00	0.00
ATOM	1773	H	GLU	116	-1.774	-20.172	11.629	1.00	0.00
ATOM	1774	HA	GLU	116	-1.724	-17.773	10.173	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.428	-19.002	8.340	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.454	-20.053	9.305	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.564	-20.217	9.855	1.00	0.00
ATOM	1778	2HG	GLU	116	-1.096	-20.805	8.280	1.00	0.00
ATOM	1779	N	PRO	117	-4.827	-18.608	11.159	1.00	0.00
ATOM	1780	CA	PRO	117	-6.172	-18.044	11.365	1.00	0.00
ATOM	1784	C	PRO	117	-6.202	-16.933	12.411	1.00	0.00
ATOM	1785	O	PRO	117	-7.078	-16.066	12.388	1.00	0.00
ATOM	1781	CB	PRO	117	-7.009	-19.238	11.847	1.00	0.00
ATOM	1782	CG	PRO	117	-6.212	-20.446	11.495	1.00	0.00
ATOM	1783	CD	PRO	117	-4.776	-20.025	11.565	1.00	0.00
ATOM	1786	HA	PRO	117	-6.582	-17.669	10.440	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.963	-19.236	11.344	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.161	-19.165	12.915	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.460	-20.769	10.496	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.407	-21.234	12.206	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.177	-20.598	10.874	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.400	-20.128	12.573	1.00	0.00
ATOM	1793	N	LEU	118	-5.247	-16.963	13.330	1.00	0.00
ATOM	1794	CA	LEU	118	-5.176	-15.964	14.388	1.00	0.00
ATOM	1799	C	LEU	118	-4.835	-14.586	13.831	1.00	0.00
ATOM	1800	O	LEU	118	-5.263	-13.572	14.377	1.00	0.00
ATOM	1795	CB	LEU	118	-4.151	-16.375	15.447	1.00	0.00
ATOM	1796	CG	LEU	118	-4.715	-17.207	16.596	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.803	-18.674	16.202	1.00	0.00
ATOM	1798	CD2	LEU	118	-3.860	-17.034	17.842	1.00	0.00
ATOM	1801	H	LEU	118	-4.578	-17.677	13.298	1.00	0.00
ATOM	1802	HA	LEU	118	-6.150	-15.914	14.852	1.00	0.00



ATOM	1803	1HB	LEU	118	-3.715	-15.480	15.864	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.371	-16.945	14.964	1.00	0.00
ATOM	1805	HG	LEU	118	-5.714	-16.863	16.824	1.00	0.00
ATOM	1806	1HD1	LEU	118	-5.354	-18.766	15.278	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.311	-19.225	16.979	1.00	0.00
ATOM	1808	3HD1	LEU	118	-3.807	-19.072	16.071	1.00	0.00
ATOM	1809	1HD2	LEU	118	-2.874	-17.432	17.660	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.316	-17.560	18.667	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.786	-15.983	18.083	1.00	0.00
ATOM	1812	N	VAL	119	-4.075	-14.558	12.741	1.00	0.00
ATOM	1813	CA	VAL	119	-3.677	-13.304	12.103	1.00	0.00
ATOM	1817	C	VAL	119	-4.896	-12.477	11.704	1.00	0.00
ATOM	1818	O	VAL	119	-5.030	-11.320	12.104	1.00	0.00
ATOM	1814	CB	VAL	119	-2.810	-13.566	10.851	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.491	-12.267	10.127	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.532	-14.299	11.225	1.00	0.00
ATOM	1819	H	VAL	119	-3.772	-15.406	12.353	1.00	0.00
ATOM	1820	HA	VAL	119	-3.091	-12.737	12.815	1.00	0.00
ATOM	1821	HB	VAL	119	-3.374	-14.196	10.178	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.438	-12.048	10.230	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.069	-11.463	10.558	1.00	0.00
ATOM	1824	3HG1	VAL	119	-2.738	-12.368	9.081	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.932	-13.671	11.868	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.976	-14.532	10.330	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.778	-15.213	11.746	1.00	0.00
ATOM	1828	N	GLY	120	-5.786	-13.079	10.921	1.00	0.00
ATOM	1829	CA	GLY	120	-6.980	-12.376	10.491	1.00	0.00
ATOM	1830	C	GLY	120	-7.881	-12.025	11.652	1.00	0.00
ATOM	1831	O	GLY	120	-8.539	-10.987	11.637	1.00	0.00
ATOM	1832	H	GLY	120	-5.632	-14.002	10.639	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.524	-12.992	9.798	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.686	-11.465	9.990	1.00	0.00
ATOM	1835	N	GLN	121	-7.896	-12.880	12.670	1.00	0.00
ATOM	1836	CA	GLN	121	-8.711	-12.631	13.845	1.00	0.00
ATOM	1842	C	GLN	121	-8.208	-11.393	14.568	1.00	0.00
ATOM	1843	O	GLN	121	-8.971	-10.485	14.836	1.00	0.00
ATOM	1837	CB	GLN	121	-8.710	-13.833	14.788	1.00	0.00
ATOM	1838	CG	GLN	121	-9.772	-14.866	14.456	1.00	0.00
ATOM	1839	CD	GLN	121	-10.723	-15.118	15.610	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.415	-15.875	16.532	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.879	-14.473	15.583	1.00	0.00
ATOM	1844	H	GLN	121	-7.340	-13.684	12.631	1.00	0.00
ATOM	1845	HA	GLN	121	-9.722	-12.447	13.512	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.884	-13.482	15.795	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.746	-14.307	14.747	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.284	-15.795	14.200	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.345	-14.516	13.609	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.058	-13.861	14.820	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.519	-14.635	16.306	1.00	0.00
ATOM	1852	N	VAL	122	-6.917	-11.336	14.856	1.00	0.00
ATOM	1853	CA	VAL	122	-6.352	-10.168	15.526	1.00	0.00
ATOM	1857	C	VAL	122	-6.641	-8.912	14.710	1.00	0.00
ATOM	1858	O	VAL	122	-6.903	-7.843	15.262	1.00	0.00
ATOM	1854	CB	VAL	122	-4.826	-10.315	15.739	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.240	-9.069	16.385	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.514	-11.541	16.580	1.00	0.00
ATOM	1859	H	VAL	122	-6.328	-12.082	14.600	1.00	0.00
ATOM	1860	HA	VAL	122	-6.836	-10.070	16.493	1.00	0.00
ATOM	1861	HB	VAL	122	-4.360	-10.446	14.771	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.767	-8.196	16.028	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.194	-8.989	16.126	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.342	-9.137	17.458	1.00	0.00
ATOM	1865	1HG2	VAL	122	-3.523	-11.446	17.001	1.00	0.00
ATOM	1866	2HG2	VAL	122	-4.559	-12.424	15.960	1.00	0.00
ATOM	1867	3HG2	VAL	122	-5.237	-11.624	17.379	1.00	0.00
ATOM	1868	N	GLN	123	-6.626	-9.065	13.392	1.00	0.00
ATOM	1869	CA	GLN	123	-6.914	-7.964	12.489	1.00	0.00
ATOM	1875	C	GLN	123	-8.348	-7.474	12.685	1.00	0.00
ATOM	1876	O	GLN	123	-8.591	-6.271	12.808	1.00	0.00
ATOM	1870	CB	GLN	123	-6.697	-8.403	11.037	1.00	0.00
ATOM	1871	CG	GLN	123	-6.219	-7.282	10.130	1.00	0.00
ATOM	1872	CD	GLN	123	-6.060	-7.726	8.688	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.936	-8.378	8.125	1.00	0.00



ATOM	1874	NE2	GLN	123	-4.938	-7.370	8.080	1.00	0.00
ATOM	1877	H	GLN	123	-6.435	-9.953	13.017	1.00	0.00
ATOM	1878	HA	GLN	123	-6.236	-7.158	12.722	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.629	-8.786	10.644	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.961	-9.195	11.019	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.264	-6.928	10.490	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.938	-6.477	10.165	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.283	-6.846	8.586	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.811	-7.646	7.149	1.00	0.00
ATOM	1885	N	GLU	124	-9.293	-8.408	12.726	1.00	0.00
ATOM	1886	CA	GLU	124	-10.693	-8.060	12.917	1.00	0.00
ATOM	1892	C	GLU	124	-10.959	-7.622	14.356	1.00	0.00
ATOM	1893	O	GLU	124	-11.739	-6.700	14.577	1.00	0.00
ATOM	1887	CB	GLU	124	-11.618	-9.219	12.526	1.00	0.00
ATOM	1888	CG	GLU	124	-11.353	-10.493	13.298	1.00	0.00
ATOM	1889	CD	GLU	124	-12.391	-11.572	13.059	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.082	-11.520	12.022	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.522	-12.471	13.919	1.00	0.00
ATOM	1894	H	GLU	124	-9.039	-9.355	12.631	1.00	0.00
ATOM	1895	HA	GLU	124	-10.903	-7.222	12.269	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.493	-9.427	11.473	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.642	-8.923	12.705	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.335	-10.256	14.352	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.386	-10.872	13.008	1.00	0.00
ATOM	1900	N	TRP	125	-10.300	-8.258	15.335	1.00	0.00
ATOM	1901	CA	TRP	125	-10.485	-7.876	16.736	1.00	0.00
ATOM	1912	C	TRP	125	-10.104	-6.414	16.900	1.00	0.00
ATOM	1913	O	TRP	125	-10.739	-5.660	17.637	1.00	0.00
ATOM	1902	CB	TRP	125	-9.592	-8.690	17.699	1.00	0.00
ATOM	1903	CG	TRP	125	-9.705	-10.192	17.649	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.710	-10.957	17.126	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.734	-11.109	18.166	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.410	-12.294	17.281	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.199	-12.409	17.906	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.506	-10.951	18.817	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.477	-13.546	18.273	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.794	-12.077	19.183	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.277	-13.360	18.903	1.00	0.00
ATOM	1914	H	TRP	125	-9.668	-8.986	15.109	1.00	0.00
ATOM	1915	HA	TRP	125	-11.524	-8.004	16.994	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.807	-8.380	18.708	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.564	-8.449	17.485	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.598	-10.565	16.663	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.972	-13.042	16.987	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.121	-9.968	19.057	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.835	-14.543	18.064	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.843	-11.971	19.681	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.689	-14.212	19.217	1.00	0.00
ATOM	1924	N	MET	126	-9.043	-6.038	16.206	1.00	0.00
ATOM	1925	CA	MET	126	-8.532	-4.679	16.264	1.00	0.00
ATOM	1930	C	MET	126	-9.435	-3.703	15.527	1.00	0.00
ATOM	1931	O	MET	126	-9.856	-2.692	16.092	1.00	0.00
ATOM	1926	CB	MET	126	-7.122	-4.630	15.679	1.00	0.00
ATOM	1927	CG	MET	126	-6.302	-3.447	16.158	1.00	0.00
ATOM	1928	SD	MET	126	-5.180	-2.831	14.890	1.00	0.00
ATOM	1929	CE	MET	126	-4.102	-4.243	14.670	1.00	0.00
ATOM	1932	H	MET	126	-8.582	-6.706	15.639	1.00	0.00
ATOM	1933	HA	MET	126	-8.490	-4.387	17.301	1.00	0.00
ATOM	1934	1HB	MET	126	-7.194	-4.576	14.603	1.00	0.00
ATOM	1935	2HB	MET	126	-6.601	-5.534	15.951	1.00	0.00
ATOM	1936	1HG	MET	126	-5.722	-3.752	17.016	1.00	0.00
ATOM	1937	2HG	MET	126	-6.974	-2.650	16.444	1.00	0.00
ATOM	1938	1HE	MET	126	-3.655	-4.508	15.617	1.00	0.00
ATOM	1939	2HE	MET	126	-3.325	-3.994	13.963	1.00	0.00
ATOM	1940	3HE	MET	126	-4.673	-5.081	14.295	1.00	0.00
ATOM	1941	N	VAL	127	-9.724	-3.997	14.266	1.00	0.00
ATOM	1942	CA	VAL	127	-10.566	-3.119	13.465	1.00	0.00
ATOM	1946	C	VAL	127	-11.972	-2.994	14.056	1.00	0.00
ATOM	1947	O	VAL	127	-12.582	-1.930	13.972	1.00	0.00
ATOM	1943	CB	VAL	127	-10.624	-3.557	11.976	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.644	-4.663	11.744	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.923	-2.361	11.086	1.00	0.00
ATOM	1948	H	VAL	127	-9.353	-4.813	13.864	1.00	0.00



ATOM	1949	HA	VAL	127	-10.109	-2.139	13.496	1.00	0.00
ATOM	1950	HB	VAL	127	-9.650	-3.937	11.700	1.00	0.00
ATOM	1951	1HG1	VAL	127	-12.379	-4.331	11.023	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.137	-4.902	12.675	1.00	0.00
ATOM	1953	3HG1	VAL	127	-11.142	-5.542	11.366	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.162	-2.280	10.324	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.931	-1.461	11.683	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.889	-2.491	10.619	1.00	0.00
ATOM	1957	N	GLU	128	-12.479	-4.058	14.679	1.00	0.00
ATOM	1958	CA	GLU	128	-13.805	-4.005	15.282	1.00	0.00
ATOM	1964	C	GLU	128	-13.802	-3.053	16.465	1.00	0.00
ATOM	1965	O	GLU	128	-14.633	-2.149	16.552	1.00	0.00
ATOM	1959	CB	GLU	128	-14.254	-5.396	15.729	1.00	0.00
ATOM	1960	CG	GLU	128	-15.353	-5.987	14.865	1.00	0.00
ATOM	1961	CD	GLU	128	-16.530	-6.485	15.679	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.388	-6.628	16.913	1.00	0.00
ATOM	1963	OE2	GLU	128	-17.601	-6.735	15.089	1.00	0.00
ATOM	1966	H	GLU	128	-11.949	-4.890	14.744	1.00	0.00
ATOM	1967	HA	GLU	128	-14.488	-3.630	14.542	1.00	0.00
ATOM	1968	1HB	GLU	128	-14.616	-5.335	16.744	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.404	-6.062	15.699	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.947	-6.815	14.304	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.704	-5.228	14.181	1.00	0.00
ATOM	1972	N	TYR	129	-12.847	-3.248	17.360	1.00	0.00
ATOM	1973	CA	TYR	129	-12.712	-2.404	18.537	1.00	0.00
ATOM	1982	C	TYR	129	-12.523	-0.947	18.137	1.00	0.00
ATOM	1983	O	TYR	129	-12.997	-0.026	18.809	1.00	0.00
ATOM	1974	CB	TYR	129	-11.505	-2.856	19.358	1.00	0.00
ATOM	1975	CG	TYR	129	-11.529	-2.368	20.786	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.346	-2.967	21.736	1.00	0.00
ATOM	1977	CD2	TYR	129	-10.742	-1.295	21.177	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.375	-2.508	23.038	1.00	0.00
ATOM	1979	CE2	TYR	129	-10.768	-0.829	22.473	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.584	-1.439	23.399	1.00	0.00
ATOM	1981	OH	TYR	129	-11.615	-0.965	24.687	1.00	0.00
ATOM	1984	H	TYR	129	-12.207	-3.980	17.220	1.00	0.00
ATOM	1985	HA	TYR	129	-13.606	-2.499	19.133	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.605	-2.479	18.895	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.469	-3.933	19.368	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.102	-0.821	20.448	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.963	-3.806	21.446	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.147	0.008	22.757	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.014	-2.985	23.765	1.00	0.00
ATOM	1992	HH	TYR	129	-11.984	-1.643	25.283	1.00	0.00
ATOM	1993	N	LEU	130	-11.814	-0.756	17.042	1.00	0.00
ATOM	1994	CA	LEU	130	-11.522	0.575	16.539	1.00	0.00
ATOM	1999	C	LEU	130	-12.739	1.242	15.909	1.00	0.00
ATOM	2000	O	LEU	130	-13.111	2.345	16.294	1.00	0.00
ATOM	1995	CB	LEU	130	-10.390	0.521	15.522	1.00	0.00
ATOM	1996	CG	LEU	130	-9.074	1.136	15.995	1.00	0.00
ATOM	1997	CD1	LEU	130	-8.002	0.067	16.130	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.629	2.232	15.040	1.00	0.00
ATOM	2001	H	LEU	130	-11.460	-1.543	16.562	1.00	0.00
ATOM	2002	HA	LEU	130	-11.196	1.176	17.377	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.713	1.053	14.642	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.213	-0.513	15.261	1.00	0.00
ATOM	2005	HG	LEU	130	-9.223	1.581	16.968	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.420	0.252	17.021	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.355	0.094	15.266	1.00	0.00
ATOM	2008	3HD1	LEU	130	-8.468	-0.904	16.200	1.00	0.00
ATOM	2009	1HD2	LEU	130	-8.562	3.169	15.574	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.346	2.326	14.238	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.661	1.982	14.630	1.00	0.00
ATOM	2012	N	GLU	131	-13.342	0.594	14.927	1.00	0.00
ATOM	2013	CA	GLU	131	-14.496	1.165	14.238	1.00	0.00
ATOM	2019	C	GLU	131	-15.685	1.368	15.179	1.00	0.00
ATOM	2020	O	GLU	131	-16.550	2.207	14.922	1.00	0.00
ATOM	2014	CB	GLU	131	-14.892	0.287	13.049	1.00	0.00
ATOM	2015	CG	GLU	131	-13.792	0.166	12.005	1.00	0.00
ATOM	2016	CD	GLU	131	-14.310	-0.231	10.637	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.303	-0.983	10.570	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.713	0.204	9.629	1.00	0.00
ATOM	2021	H	GLU	131	-12.995	-0.283	14.639	1.00	0.00



ATOM	2022	HA	GLU	131	-14.197	2.132	13.862	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.765	0.710	12.576	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.131	-0.703	13.410	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.084	-0.581	12.334	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.291	1.118	11.917	1.00	0.00
ATOM	2027	N	THR	132	-15.731	0.608	16.265	1.00	0.00
ATOM	2028	CA	THR	132	-16.826	0.723	17.220	1.00	0.00
ATOM	2032	C	THR	132	-16.623	1.881	18.208	1.00	0.00
ATOM	2033	O	THR	132	-17.571	2.605	18.512	1.00	0.00
ATOM	2029	CB	THR	132	-17.028	-0.593	18.003	1.00	0.00
ATOM	2030	OG1	THR	132	-17.144	-1.691	17.090	1.00	0.00
ATOM	2031	CG2	THR	132	-18.275	-0.531	18.875	1.00	0.00
ATOM	2034	H	THR	132	-15.019	-0.048	16.424	1.00	0.00
ATOM	2035	HA	THR	132	-17.728	0.911	16.655	1.00	0.00
ATOM	2036	HB	THR	132	-16.167	-0.753	18.639	1.00	0.00
ATOM	2037	HG1	THR	132	-16.283	-1.864	16.682	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.031	-0.068	19.819	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.642	-1.532	19.049	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.036	0.049	18.374	1.00	0.00
ATOM	2041	N	ARG	133	-15.406	2.053	18.735	1.00	0.00
ATOM	2042	CA	ARG	133	-15.171	3.125	19.712	1.00	0.00
ATOM	2050	C	ARG	133	-14.006	4.048	19.354	1.00	0.00
ATOM	2051	O	ARG	133	-14.076	5.247	19.616	1.00	0.00
ATOM	2043	CB	ARG	133	-14.940	2.555	21.118	1.00	0.00
ATOM	2044	CG	ARG	133	-15.570	1.192	21.364	1.00	0.00
ATOM	2045	CD	ARG	133	-14.954	0.512	22.578	1.00	0.00
ATOM	2046	NE	ARG	133	-15.778	0.665	23.779	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.518	0.055	24.938	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.423	-0.682	25.067	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.335	0.207	25.970	1.00	0.00
ATOM	2052	H	ARG	133	-14.677	1.446	18.487	1.00	0.00
ATOM	2053	HA	ARG	133	-16.066	3.727	19.738	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.349	3.248	21.839	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.877	2.468	21.285	1.00	0.00
ATOM	2056	1HG	ARG	133	-15.411	0.572	20.494	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.629	1.318	21.529	1.00	0.00
ATOM	2058	1HD	ARG	133	-13.983	0.947	22.763	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.839	-0.541	22.366	1.00	0.00
ATOM	2060	HE	ARG	133	-16.577	1.246	23.709	1.00	0.00
ATOM	2061	1HH1	ARG	133	-13.787	-0.779	24.301	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.217	-1.154	25.939	1.00	0.00
ATOM	2063	1HH2	ARG	133	-17.158	0.784	25.886	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.143	-0.256	26.839	1.00	0.00
ATOM	2065	N	LEU	134	-12.929	3.511	18.788	1.00	0.00
ATOM	2066	CA	LEU	134	-11.772	4.340	18.452	1.00	0.00
ATOM	2071	C	LEU	134	-12.137	5.419	17.441	1.00	0.00
ATOM	2072	O	LEU	134	-11.804	6.588	17.635	1.00	0.00
ATOM	2067	CB	LEU	134	-10.621	3.488	17.921	1.00	0.00
ATOM	2068	CG	LEU	134	-9.419	3.361	18.857	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.729	4.708	19.033	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.846	2.793	20.203	1.00	0.00
ATOM	2073	H	LEU	134	-12.901	2.548	18.604	1.00	0.00
ATOM	2074	HA	LEU	134	-11.448	4.825	19.361	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.278	3.922	16.993	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.999	2.496	17.716	1.00	0.00
ATOM	2077	HG	LEU	134	-8.710	2.676	18.418	1.00	0.00
ATOM	2078	1HD1	LEU	134	-9.284	5.468	18.502	1.00	0.00
ATOM	2079	2HD1	LEU	134	-7.726	4.652	18.636	1.00	0.00
ATOM	2080	3HD1	LEU	134	-8.688	4.961	20.083	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.844	3.132	20.438	1.00	0.00
ATOM	2082	2HD2	LEU	134	-9.162	3.130	20.968	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.833	1.714	20.159	1.00	0.00
ATOM	2084	N	ALA	135	-12.825	5.024	16.373	1.00	0.00
ATOM	2085	CA	ALA	135	-13.247	5.952	15.337	1.00	0.00
ATOM	2087	C	ALA	135	-14.016	7.123	15.935	1.00	0.00
ATOM	2088	O	ALA	135	-13.863	8.258	15.492	1.00	0.00
ATOM	2086	CB	ALA	135	-14.096	5.234	14.298	1.00	0.00
ATOM	2089	H	ALA	135	-13.056	4.074	16.280	1.00	0.00
ATOM	2090	HA	ALA	135	-12.362	6.328	14.847	1.00	0.00
ATOM	2091	1HB	ALA	135	-15.123	5.202	14.633	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.729	4.227	14.167	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.040	5.764	13.359	1.00	0.00
ATOM	2094	N	ASP	136	-14.825	6.842	16.954	1.00	0.00



ATOM	2095	CA	ASP	136	-15.603	7.880	17.621	1.00	0.00
ATOM	2100	C	ASP	136	-14.681	8.895	18.276	1.00	0.00
ATOM	2101	O	ASP	136	-14.788	10.093	18.006	1.00	0.00
ATOM	2096	CB	ASP	136	-16.550	7.267	18.656	1.00	0.00
ATOM	2097	CG	ASP	136	-17.274	8.317	19.473	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.108	9.053	18.902	1.00	0.00
ATOM	2099	OD2	ASP	136	-17.016	8.404	20.690	1.00	0.00
ATOM	2102	H	ASP	136	-14.890	5.916	17.274	1.00	0.00
ATOM	2103	HA	ASP	136	-16.182	8.392	16.866	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.982	6.640	19.328	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.288	6.665	18.146	1.00	0.00
ATOM	2106	N	TRP	137	-13.755	8.420	19.108	1.00	0.00
ATOM	2107	CA	TRP	137	-12.805	9.304	19.758	1.00	0.00
ATOM	2118	C	TRP	137	-12.030	10.087	18.710	1.00	0.00
ATOM	2119	O	TRP	137	-11.897	11.305	18.798	1.00	0.00
ATOM	2108	CB	TRP	137	-11.835	8.493	20.633	1.00	0.00
ATOM	2109	CG	TRP	137	-10.750	9.323	21.258	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.746	9.839	22.517	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.515	9.734	20.656	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.595	10.553	22.733	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.825	10.504	21.605	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.929	9.531	19.405	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.582	11.066	21.342	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.697	10.091	19.146	1.00	0.00
ATOM	2117	CH2	TRP	137	-7.034	10.851	20.111	1.00	0.00
ATOM	2120	H	TRP	137	-13.699	7.449	19.274	1.00	0.00
ATOM	2121	HA	TRP	137	-13.353	9.998	20.377	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.366	7.730	20.026	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.390	8.020	21.429	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.540	9.694	23.229	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.363	11.026	23.561	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.428	8.947	18.645	1.00	0.00
ATOM	2127	HZ2	TRP	137	-7.055	11.649	22.075	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.231	9.943	18.182	1.00	0.00
ATOM	2129	HH2	TRP	137	-6.069	11.272	19.867	1.00	0.00
ATOM	2130	N	ILE	138	-11.517	9.368	17.723	1.00	0.00
ATOM	2131	CA	ILE	138	-10.736	9.967	16.654	1.00	0.00
ATOM	2136	C	ILE	138	-11.522	11.045	15.913	1.00	0.00
ATOM	2137	O	ILE	138	-11.011	12.141	15.681	1.00	0.00
ATOM	2132	CB	ILE	138	-10.246	8.889	15.656	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.165	8.023	16.307	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.710	9.526	14.382	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.081	6.626	15.734	1.00	0.00
ATOM	2138	H	ILE	138	-11.660	8.393	17.722	1.00	0.00
ATOM	2139	HA	ILE	138	-9.867	10.424	17.103	1.00	0.00
ATOM	2140	HB	ILE	138	-11.085	8.263	15.393	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.370	7.937	17.363	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.202	8.495	16.169	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.544	8.759	13.639	1.00	0.00
ATOM	2144	2HG2	ILE	138	-8.780	10.029	14.596	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.430	10.240	14.007	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.879	6.683	14.675	1.00	0.00
ATOM	2147	2HD1	ILE	138	-10.019	6.115	15.895	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.287	6.083	16.223	1.00	0.00
ATOM	2149	N	HIS	139	-12.759	10.737	15.545	1.00	0.00
ATOM	2150	CA	HIS	139	-13.594	11.685	14.814	1.00	0.00
ATOM	2157	C	HIS	139	-13.984	12.886	15.676	1.00	0.00
ATOM	2158	O	HIS	139	-14.241	13.969	15.153	1.00	0.00
ATOM	2151	CB	HIS	139	-14.847	10.991	14.265	1.00	0.00
ATOM	2152	CG	HIS	139	-14.630	10.323	12.936	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.722	10.989	11.733	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.304	9.042	12.624	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.460	10.152	10.744	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.203	8.965	11.257	1.00	0.00
ATOM	2159	H	HIS	139	-13.120	9.843	15.764	1.00	0.00
ATOM	2160	HA	HIS	139	-13.012	12.044	13.980	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.630	11.726	14.143	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.174	10.239	14.967	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.967	11.940	11.615	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.147	8.233	13.325	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.445	10.399	9.694	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.152	8.126	10.733	1.00	0.00
ATOM	2167	N	SER	140	-14.036	12.701	16.988	1.00	0.00



ATOM	2168	CA	SER	140	-14.409	13.790	17.884	1.00	0.00
ATOM	2171	C	SER	140	-13.187	14.508	18.470	1.00	0.00
ATOM	2172	O	SER	140	-13.333	15.488	19.199	1.00	0.00
ATOM	2169	CB	SER	140	-15.304	13.256	19.004	1.00	0.00
ATOM	2170	OG	SER	140	-16.250	12.329	18.492	1.00	0.00
ATOM	2173	H	SER	140	-13.835	11.813	17.362	1.00	0.00
ATOM	2174	HA	SER	140	-14.975	14.504	17.305	1.00	0.00
ATOM	2175	1HB	SER	140	-15.834	14.078	19.463	1.00	0.00
ATOM	2176	2HB	SER	140	-14.693	12.761	19.746	1.00	0.00
ATOM	2177	HG	SER	140	-15.881	11.434	18.542	1.00	0.00
ATOM	2178	N	SER	141	-11.989	14.025	18.162	1.00	0.00
ATOM	2179	CA	SER	141	-10.773	14.647	18.682	1.00	0.00
ATOM	2182	C	SER	141	-10.133	15.581	17.657	1.00	0.00
ATOM	2183	O	SER	141	-9.866	16.749	17.946	1.00	0.00
ATOM	2180	CB	SER	141	-9.768	13.582	19.135	1.00	0.00
ATOM	2181	OG	SER	141	-9.387	13.780	20.489	1.00	0.00
ATOM	2184	H	SER	141	-11.920	13.231	17.590	1.00	0.00
ATOM	2185	HA	SER	141	-11.056	15.232	19.533	1.00	0.00
ATOM	2186	1HB	SER	141	-8.888	13.637	18.513	1.00	0.00
ATOM	2187	2HB	SER	141	-10.216	12.603	19.040	1.00	0.00
ATOM	2188	HG	SER	141	-8.792	14.536	20.544	1.00	0.00
ATOM	2189	N	GLY	142	-9.892	15.065	16.466	1.00	0.00
ATOM	2190	CA	GLY	142	-9.277	15.858	15.412	1.00	0.00
ATOM	2191	C	GLY	142	-9.279	15.125	14.095	1.00	0.00
ATOM	2192	O	GLY	142	-9.032	15.703	13.036	1.00	0.00
ATOM	2193	H	GLY	142	-10.130	14.134	16.295	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.257	16.079	15.688	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.818	16.785	15.300	1.00	0.00
ATOM	2196	N	GLY	143	-9.568	13.839	14.168	1.00	0.00
ATOM	2197	CA	GLY	143	-9.609	13.019	12.979	1.00	0.00
ATOM	2198	C	GLY	143	-8.272	12.418	12.638	1.00	0.00
ATOM	2199	O	GLY	143	-7.242	12.836	13.162	1.00	0.00
ATOM	2200	H	GLY	143	-9.760	13.441	15.046	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.937	13.621	12.152	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.309	12.225	13.129	1.00	0.00
ATOM	2203	N	TRP	144	-8.291	11.442	11.742	1.00	0.00
ATOM	2204	CA	TRP	144	-7.076	10.779	11.302	1.00	0.00
ATOM	2215	C	TRP	144	-6.131	11.803	10.686	1.00	0.00
ATOM	2216	O	TRP	144	-4.911	11.669	10.770	1.00	0.00
ATOM	2205	CB	TRP	144	-7.424	9.680	10.296	1.00	0.00
ATOM	2206	CG	TRP	144	-8.103	8.498	10.929	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.449	8.290	11.073	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.460	7.368	11.520	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.676	7.097	11.723	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.470	6.512	12.002	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.123	6.995	11.685	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.180	5.309	12.640	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.840	5.803	12.317	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.864	4.970	12.787	1.00	0.00
ATOM	2217	H	TRP	144	-9.144	11.166	11.355	1.00	0.00
ATOM	2218	HA	TRP	144	-6.599	10.339	12.164	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.518	9.335	9.820	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.088	10.086	9.548	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.209	8.975	10.730	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.559	6.721	11.947	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.319	7.623	11.327	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.957	4.655	13.007	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.809	5.496	12.452	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.594	4.044	13.276	1.00	0.00
ATOM	2227	N	ALA	145	-6.722	12.841	10.097	1.00	0.00
ATOM	2228	CA	ALA	145	-5.967	13.923	9.479	1.00	0.00
ATOM	2230	C	ALA	145	-5.108	14.653	10.510	1.00	0.00
ATOM	2231	O	ALA	145	-3.983	15.056	10.210	1.00	0.00
ATOM	2229	CB	ALA	145	-6.905	14.900	8.785	1.00	0.00
ATOM	2232	H	ALA	145	-7.698	12.886	10.094	1.00	0.00
ATOM	2233	HA	ALA	145	-5.321	13.488	8.730	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.280	15.612	9.505	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.731	14.359	8.349	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.367	15.424	8.008	1.00	0.00
ATOM	2237	N	GLU	146	-5.629	14.802	11.732	1.00	0.00
ATOM	2238	CA	GLU	146	-4.875	15.470	12.794	1.00	0.00
ATOM	2244	C	GLU	146	-3.611	14.662	13.086	1.00	0.00
ATOM	2245	O	GLU	146	-2.512	15.207	13.220	1.00	0.00



ATOM	2239	CB	GLU	146	-5.741	15.627	14.058	1.00	0.00
ATOM	2240	CG	GLU	146	-4.975	15.501	15.368	1.00	0.00
ATOM	2241	CD	GLU	146	-5.547	16.368	16.474	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.786	17.570	16.227	1.00	0.00
ATOM	2243	OS2	GLU	146	-5.751	15.849	17.593	1.00	0.00
ATOM	2246	H	GLU	146	-6.529	14.439	11.928	1.00	0.00
ATOM	2247	HA	GLU	146	-4.587	16.447	12.434	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.518	14.877	14.047	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.203	16.602	14.040	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.949	15.790	15.198	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.008	14.471	15.689	1.00	0.00
ATOM	2252	N	PHE	147	-3.786	13.350	13.138	1.00	0.00
ATOM	2253	CA	PHE	147	-2.692	12.420	13.374	1.00	0.00
ATOM	2261	C	PHE	147	-1.708	12.442	12.203	1.00	0.00
ATOM	2262	O	PHE	147	-0.500	12.298	12.395	1.00	0.00
ATOM	2254	CB	PHE	147	-3.267	11.014	13.575	1.00	0.00
ATOM	2255	CG	PHE	147	-2.250	9.961	13.898	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.247	10.199	14.824	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.302	8.727	13.271	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.315	9.223	15.115	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.373	7.750	13.559	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.378	7.999	14.482	1.00	0.00
ATOM	2263	H	PHE	147	-4.687	12.994	12.992	1.00	0.00
ATOM	2264	HA	PHE	147	-2.170	12.727	14.276	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.776	10.714	12.670	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.979	11.040	14.385	1.00	0.00
ATOM	2267	HD1	PHE	147	-3.080	8.533	12.547	1.00	0.00
ATOM	2268	HD2	PHE	147	-1.199	11.157	15.319	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.425	6.792	13.063	1.00	0.00
ATOM	2270	HE2	PHE	147	0.463	9.419	15.838	1.00	0.00
ATOM	2271	HZ	PHE	147	0.353	7.237	14.707	1.00	0.00
ATOM	2272	N	THR	148	-2.228	12.644	10.989	1.00	0.00
ATOM	2273	CA	THR	148	-1.379	12.701	9.800	1.00	0.00
ATOM	2277	C	THR	148	-0.475	13.923	9.839	1.00	0.00
ATOM	2278	O	THR	148	0.610	13.918	9.268	1.00	0.00
ATOM	2274	CB	THR	148	-2.198	12.711	8.495	1.00	0.00
ATOM	2275	OG1	THR	148	-3.400	11.958	8.666	1.00	0.00
ATOM	2276	CG2	THR	148	-1.396	12.123	7.343	1.00	0.00
ATOM	2279	H	THR	148	-3.198	12.768	10.897	1.00	0.00
ATOM	2280	HA	THR	148	-0.753	11.819	9.799	1.00	0.00
ATOM	2281	HB	THR	148	-2.453	13.733	8.253	1.00	0.00
ATOM	2282	HG1	THR	148	-3.477	11.668	9.582	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.953	11.314	6.891	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.454	11.747	7.715	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.212	12.889	6.604	1.00	0.00
ATOM	2286	N	ALA	149	-0.909	14.957	10.536	1.00	0.00
ATOM	2287	CA	ALA	149	-0.103	16.154	10.665	1.00	0.00
ATOM	2289	C	ALA	149	0.910	15.950	11.783	1.00	0.00
ATOM	2290	O	ALA	149	2.097	16.220	11.623	1.00	0.00
ATOM	2288	CB	ALA	149	-0.979	17.366	10.941	1.00	0.00
ATOM	2291	H	ALA	149	-1.779	14.905	10.990	1.00	0.00
ATOM	2292	HA	ALA	149	0.423	16.310	9.732	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.185	17.429	11.998	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.908	17.271	10.397	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.466	18.262	10.620	1.00	0.00
ATOM	2296	N	LEU	150	0.414	15.447	12.908	1.00	0.00
ATOM	2297	CA	LEU	150	1.231	15.175	14.089	1.00	0.00
ATOM	2302	C	LEU	150	2.430	14.282	13.773	1.00	0.00
ATOM	2303	O	LEU	150	3.537	14.512	14.270	1.00	0.00
ATOM	2298	CB	LEU	150	0.367	14.507	15.161	1.00	0.00
ATOM	2299	CG	LEU	150	-0.174	15.443	16.240	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.647	15.172	16.489	1.00	0.00
ATOM	2301	CD2	LEU	150	0.618	15.288	17.527	1.00	0.00
ATOM	2304	H	LEU	150	-0.547	15.246	12.948	1.00	0.00
ATOM	2305	HA	LEU	150	1.589	16.120	14.469	1.00	0.00
ATOM	2306	1HB	LEU	150	0.948	13.739	15.640	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.467	14.039	14.669	1.00	0.00
ATOM	2308	HG	LEU	150	-0.073	16.463	15.904	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.167	15.120	15.544	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.063	15.971	17.085	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.757	14.235	17.014	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.288	16.127	17.639	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.190	14.373	17.489	1.00	0.00



ATOM	2314	3HD2	LEU	150	-0.061	15.254	18.366	1.00	0.00
ATOM	2315	N	TYR	151	2.207	13.249	12.971	1.00	0.00
ATOM	2316	CA	TYR	151	3.271	12.315	12.626	1.00	0.00
ATOM	2325	C	TYR	151	3.538	12.286	11.125	1.00	0.00
ATOM	2326	O	TYR	151	4.027	11.289	10.599	1.00	0.00
ATOM	2317	CB	TYR	151	2.905	10.909	13.111	1.00	0.00
ATOM	2318	CG	TYR	151	3.578	10.519	14.407	1.00	0.00
ATOM	2319	CD1	TYR	151	4.919	10.162	14.435	1.00	0.00
ATOM	2320	CD2	TYR	151	2.874	10.514	15.606	1.00	0.00
ATOM	2321	CE1	TYR	151	5.540	9.813	15.618	1.00	0.00
ATOM	2322	CE2	TYR	151	3.487	10.165	16.793	1.00	0.00
ATOM	2323	CZ	TYR	151	4.821	9.815	16.794	1.00	0.00
ATOM	2324	OH	TYR	151	5.441	9.483	17.974	1.00	0.00
ATOM	2327	H	TYR	151	1.300	13.098	12.620	1.00	0.00
ATOM	2328	HA	TYR	151	4.169	12.635	13.132	1.00	0.00
ATOM	2329	1HB	TYR	151	3.192	10.190	12.357	1.00	0.00
ATOM	2330	2HB	TYR	151	1.837	10.856	13.263	1.00	0.00
ATOM	2331	HD1	TYR	151	5.480	10.160	13.513	1.00	0.00
ATOM	2332	HD2	TYR	151	1.828	10.787	15.601	1.00	0.00
ATOM	2333	HE1	TYR	151	6.585	9.539	15.619	1.00	0.00
ATOM	2334	HE2	TYR	151	2.923	10.167	17.714	1.00	0.00
ATOM	2335	HH	TYR	151	6.384	9.705	17.915	1.00	0.00
ATOM	2336	N	GLY	152	3.216	13.362	10.427	1.00	0.00
ATOM	2337	CA	GLY	152	3.440	13.380	8.997	1.00	0.00
ATOM	2338	C	GLY	152	4.314	14.525	8.534	1.00	0.00
ATOM	2339	O	GLY	152	5.351	14.816	9.135	1.00	0.00
ATOM	2340	H	GLY	152	2.819	14.138	10.875	1.00	0.00
ATOM	2341	1HA	GLY	152	2.483	13.451	8.500	1.00	0.00
ATOM	2342	2HA	GLY	152	3.910	12.451	8.710	1.00	0.00
ATOM	2343	N	ASP	153	3.892	15.157	7.448	1.00	0.00
ATOM	2344	CA	ASP	153	4.625	16.273	6.855	1.00	0.00
ATOM	2349	C	ASP	153	4.502	17.527	7.708	1.00	0.00
ATOM	2350	O	ASP	153	5.489	18.215	7.966	1.00	0.00
ATOM	2345	CB	ASP	153	4.094	16.554	5.448	1.00	0.00
ATOM	2346	CG	ASP	153	5.160	17.087	4.510	1.00	0.00
ATOM	2347	OD1	ASP	153	5.596	18.243	4.684	1.00	0.00
ATOM	2348	OD2	ASP	153	5.546	16.360	3.570	1.00	0.00
ATOM	2351	H	ASP	153	3.063	14.857	7.024	1.00	0.00
ATOM	2352	HA	ASP	153	5.666	15.993	6.790	1.00	0.00
ATOM	2353	1HB	ASP	153	3.300	17.284	5.512	1.00	0.00
ATOM	2354	2HB	ASP	153	3.701	15.639	5.030	1.00	0.00
ATOM	2355	N	GLY	154	3.284	17.815	8.150	1.00	0.00
ATOM	2356	CA	GLY	154	3.050	18.988	8.972	1.00	0.00
ATOM	2357	C	GLY	154	3.381	18.752	10.431	1.00	0.00
ATOM	2358	O	GLY	154	2.565	19.011	11.311	1.00	0.00
ATOM	2359	H	GLY	154	2.538	17.227	7.919	1.00	0.00
ATOM	2360	1HA	GLY	154	2.011	19.270	8.890	1.00	0.00
ATOM	2361	2HA	GLY	154	3.662	19.799	8.603	1.00	0.00
ATOM	2362	N	ALA	155	4.584	18.265	10.685	1.00	0.00
ATOM	2363	CA	ALA	155	5.032	17.997	12.037	1.00	0.00
ATOM	2365	C	ALA	155	5.605	19.260	12.666	1.00	0.00
ATOM	2366	O	ALA	155	6.812	19.371	12.881	1.00	0.00
ATOM	2364	CB	ALA	155	6.058	16.875	12.046	1.00	0.00
ATOM	2367	H	ALA	155	5.190	18.087	9.939	1.00	0.00
ATOM	2368	HA	ALA	155	4.176	17.678	12.614	1.00	0.00
ATOM	2369	1HB	ALA	155	6.262	16.565	11.032	1.00	0.00
ATOM	2370	2HB	ALA	155	5.671	16.038	12.609	1.00	0.00
ATOM	2371	3HB	ALA	155	6.970	17.225	12.506	1.00	0.00
ATOM	2372	N	LEU	156	4.724	20.209	12.953	1.00	0.00
ATOM	2373	CA	LEU	156	5.113	21.468	13.556	1.00	0.00
ATOM	2378	C	LEU	156	5.663	21.225	14.952	1.00	0.00
ATOM	2379	O	LEU	156	5.382	20.193	15.565	1.00	0.00
ATOM	2374	CB	LEU	156	3.912	22.417	13.624	1.00	0.00
ATOM	2375	CG	LEU	156	2.548	21.737	13.769	1.00	0.00
ATOM	2376	CD1	LEU	156	1.732	22.402	14.865	1.00	0.00
ATOM	2377	CD2	LEU	156	1.789	21.776	12.453	1.00	0.00
ATOM	2380	H	LEU	156	3.780	20.056	12.752	1.00	0.00
ATOM	2381	HA	LEU	156	5.884	21.910	12.944	1.00	0.00
ATOM	2382	1HB	LEU	156	3.899	23.011	12.722	1.00	0.00
ATOM	2383	2HB	LEU	156	4.052	23.073	14.465	1.00	0.00
ATOM	2384	HC	LEU	156	2.698	20.700	14.046	1.00	0.00
ATOM	2385	1HD1	LEU	156	1.838	21.841	15.782	1.00	0.00
ATOM	2386	2HD1	LEU	156	0.692	22.425	14.576	1.00	0.00



ATOM	2387	3HD1	LEU	156	2.087	23.411	15.016	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.455	20.781	12.200	1.00	0.00
ATOM	2389	2HD2	LEU	156	2.439	22.147	11.673	1.00	0.00
ATOM	2390	3HD2	LEU	156	0.933	22.428	12.549	1.00	0.00
ATOM	2391	N	GLU	157	6.440	22.174	15.454	1.00	0.00
ATOM	2392	CA	GLU	157	7.029	22.061	16.781	1.00	0.00
ATOM	2398	C	GLU	157	5.949	21.864	17.838	1.00	0.00
ATOM	2399	O	GLU	157	6.150	21.160	18.829	1.00	0.00
ATOM	2393	CB	GLU	157	7.856	23.300	17.105	1.00	0.00
ATOM	2394	CG	GLU	157	8.995	23.032	18.074	1.00	0.00
ATOM	2395	CD	GLU	157	9.942	21.952	17.585	1.00	0.00
ATOM	2396	OE1	GLU	157	9.563	20.767	17.600	1.00	0.00
ATOM	2397	OE2	GLU	157	11.083	22.289	17.200	1.00	0.00
ATOM	2400	H	GLU	157	6.622	22.974	14.918	1.00	0.00
ATOM	2401	HA	GLU	157	7.676	21.202	16.784	1.00	0.00
ATOM	2402	1HB	GLU	157	7.209	24.040	17.543	1.00	0.00
ATOM	2403	2HB	GLU	157	8.273	23.695	16.189	1.00	0.00
ATOM	2404	1HG	GLU	157	8.577	22.720	19.020	1.00	0.00
ATOM	2405	2HG	GLU	157	9.556	23.944	18.213	1.00	0.00
ATOM	2406	N	GLU	158	4.802	22.481	17.609	1.00	0.00
ATOM	2407	CA	GLU	158	3.680	22.381	18.529	1.00	0.00
ATOM	2413	C	GLU	158	3.115	20.966	18.530	1.00	0.00
ATOM	2414	O	GLU	158	2.743	20.441	19.575	1.00	0.00
ATOM	2408	CB	GLU	158	2.593	23.393	18.158	1.00	0.00
ATOM	2409	CG	GLU	158	3.113	24.816	17.982	1.00	0.00
ATOM	2410	CD	GLU	158	3.608	25.092	16.574	1.00	0.00
ATOM	2411	OE1	GLU	158	2.781	25.436	15.708	1.00	0.00
ATOM	2412	OE2	GLU	158	4.823	24.956	16.328	1.00	0.00
ATOM	2415	H	GLU	158	4.707	23.022	16.789	1.00	0.00
ATOM	2416	HA	GLU	158	4.046	22.608	19.519	1.00	0.00
ATOM	2417	1HB	GLU	158	1.846	23.401	18.938	1.00	0.00
ATOM	2418	2HB	GLU	158	2.131	23.086	17.232	1.00	0.00
ATOM	2419	1HG	GLU	158	3.930	24.974	18.672	1.00	0.00
ATOM	2420	2HG	GLU	158	2.315	25.508	18.208	1.00	0.00
ATOM	2421	N	ALA	159	3.074	20.348	17.355	1.00	0.00
ATOM	2422	CA	ALA	159	2.570	18.986	17.222	1.00	0.00
ATOM	2424	C	ALA	159	3.595	17.982	17.736	1.00	0.00
ATOM	2425	O	ALA	159	3.243	16.974	18.347	1.00	0.00
ATOM	2423	CB	ALA	159	2.220	18.685	15.773	1.00	0.00
ATOM	2426	H	ALA	159	3.403	20.814	16.559	1.00	0.00
ATOM	2427	HA	ALA	159	1.668	18.902	17.812	1.00	0.00
ATOM	2428	1HB	ALA	159	3.092	18.835	15.153	1.00	0.00
ATOM	2429	2HB	ALA	159	1.430	19.346	15.448	1.00	0.00
ATOM	2430	3HB	ALA	159	1.890	17.660	15.686	1.00	0.00
ATOM	2431	N	ARG	160	4.864	18.273	17.481	1.00	0.00
ATOM	2432	CA	ARG	160	5.963	17.409	17.911	1.00	0.00
ATOM	2440	C	ARG	160	5.954	17.230	19.426	1.00	0.00
ATOM	2441	O	ARG	160	5.945	16.105	19.934	1.00	0.00
ATOM	2433	CB	ARG	160	7.303	17.994	17.464	1.00	0.00
ATOM	2434	CG	ARG	160	7.601	17.774	15.991	1.00	0.00
ATOM	2435	CD	ARG	160	9.087	17.586	15.748	1.00	0.00
ATOM	2436	NE	ARG	160	9.815	18.851	15.794	1.00	0.00
ATOM	2437	CZ	ARG	160	10.672	19.251	14.861	1.00	0.00
ATOM	2438	NH1	ARG	160	10.871	18.513	13.773	1.00	0.00
ATOM	2439	NH2	ARG	160	11.313	20.404	15.010	1.00	0.00
ATOM	2442	H	ARG	160	5.070	19.097	16.982	1.00	0.00
ATOM	2443	HA	ARG	160	5.828	16.444	17.444	1.00	0.00
ATOM	2444	1HB	ARG	160	8.092	17.537	18.042	1.00	0.00
ATOM	2445	2HB	ARG	160	7.299	19.057	17.654	1.00	0.00
ATOM	2446	1HG	ARG	160	7.261	18.633	15.432	1.00	0.00
ATOM	2447	2HG	ARG	160	7.078	16.893	15.654	1.00	0.00
ATOM	2448	1HD	ARG	160	9.224	17.138	14.773	1.00	0.00
ATOM	2449	2HD	ARG	160	9.484	16.926	16.505	1.00	0.00
ATOM	2450	HE	ARG	160	9.660	19.438	16.583	1.00	0.00
ATOM	2451	1HH1	ARG	160	10.367	17.648	13.649	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.527	18.807	13.070	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.148	20.972	15.831	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.960	20.718	14.307	1.00	0.00
ATOM	2455	N	ARG	161	5.942	18.342	20.148	1.00	0.00
ATOM	2456	CA	ARG	161	5.922	18.294	21.603	1.00	0.00
ATOM	2464	C	ARG	161	4.582	17.765	22.104	1.00	0.00
ATOM	2465	O	ARG	161	4.487	17.236	23.211	1.00	0.00
ATOM	2457	CB	ARG	161	6.206	19.673	22.197	1.00	0.00



ATOM	2458	CG	ARG	161	5.238	20.748	21.745	1.00	0.00
ATOM	2459	CD	ARG	161	5.620	22.109	22.303	1.00	0.00
ATOM	2460	NE	ARG	161	5.291	22.232	23.722	1.00	0.00
ATOM	2461	CZ	ARG	161	4.130	22.699	24.180	1.00	0.00
ATOM	2462	NH1	ARG	161	3.184	23.082	23.332	1.00	0.00
ATOM	2463	NH2	ARG	161	3.909	22.785	25.484	1.00	0.00
ATOM	2466	H	ARG	161	5.942	19.214	19.692	1.00	0.00
ATOM	2467	HA	ARG	161	6.697	17.615	21.918	1.00	0.00
ATOM	2468	1HB	ARG	161	7.205	19.974	21.915	1.00	0.00
ATOM	2469	2HB	ARG	161	6.153	19.604	23.274	1.00	0.00
ATOM	2470	1HG	ARG	161	4.247	20.491	22.087	1.00	0.00
ATOM	2471	2HG	ARG	161	5.247	20.796	20.666	1.00	0.00
ATOM	2472	1HD	ARG	161	5.090	22.873	21.751	1.00	0.00
ATOM	2473	2HD	ARG	161	6.683	22.249	22.176	1.00	0.00
ATOM	2474	HE	ARG	161	5.984	21.952	24.371	1.00	0.00
ATOM	2475	1HH1	ARG	161	3.334	23.022	22.347	1.00	0.00
ATOM	2476	2HH1	ARG	161	2.309	23.441	23.685	1.00	0.00
ATOM	2477	1HH2	ARG	161	4.617	22.497	26.142	1.00	0.00
ATOM	2478	2HH2	ARG	161	3.033	23.144	25.824	1.00	0.00
ATOM	2479	N	LEU	162	3.551	17.901	21.279	1.00	0.00
ATOM	2480	CA	LEU	162	2.221	17.433	21.639	1.00	0.00
ATOM	2485	C	LEU	162	2.144	15.912	21.620	1.00	0.00
ATOM	2486	O	LEU	162	1.541	15.320	22.505	1.00	0.00
ATOM	2481	CB	LEU	162	1.164	18.016	20.701	1.00	0.00
ATOM	2482	CG	LEU	162	0.202	19.014	21.349	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.601	19.748	20.286	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.726	18.302	22.324	1.00	0.00
ATOM	2487	H	LEU	162	3.688	18.326	20.407	1.00	0.00
ATOM	2488	HA	LEU	162	2.018	17.770	22.644	1.00	0.00
ATOM	2489	1HB	LEU	162	0.583	17.200	20.297	1.00	0.00
ATOM	2490	2HB	LEU	162	1.672	18.512	19.887	1.00	0.00
ATOM	2491	HG	LEU	162	0.771	19.745	21.903	1.00	0.00
ATOM	2492	1HD1	LEU	162	-1.036	19.032	19.605	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.051	20.413	19.740	1.00	0.00
ATOM	2494	3HD1	LEU	162	-1.386	20.321	20.757	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.137	17.762	23.049	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.355	17.611	21.783	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.342	19.030	22.830	1.00	0.00
ATOM	2498	N	ARG	163	2.747	15.276	20.614	1.00	0.00
ATOM	2499	CA	ARG	163	2.706	13.816	20.528	1.00	0.00
ATOM	2507	C	ARG	163	3.563	13.177	21.617	1.00	0.00
ATOM	2508	O	ARG	163	3.195	12.139	22.168	1.00	0.00
ATOM	2500	CB	ARG	163	3.116	13.300	19.140	1.00	0.00
ATOM	2501	CG	ARG	163	4.333	13.977	18.535	1.00	0.00
ATOM	2502	CD	ARG	163	4.571	13.500	17.111	1.00	0.00
ATOM	2503	NE	ARG	163	5.885	12.869	16.955	1.00	0.00
ATOM	2504	CZ	ARG	163	6.676	13.022	15.892	1.00	0.00
ATOM	2505	NH1	ARG	163	6.305	13.796	14.876	1.00	0.00
ATOM	2506	NH2	ARG	163	7.828	12.370	15.833	1.00	0.00
ATOM	2509	H	ARG	163	3.215	15.796	19.921	1.00	0.00
ATOM	2510	HA	ARG	163	1.680	13.523	20.706	1.00	0.00
ATOM	2511	1HB	ARG	163	2.284	13.439	18.464	1.00	0.00
ATOM	2512	2HB	ARG	163	3.328	12.244	19.215	1.00	0.00
ATOM	2513	1HG	ARG	163	5.199	13.743	19.135	1.00	0.00
ATOM	2514	2HG	ARG	163	4.173	15.046	18.525	1.00	0.00
ATOM	2515	1HD	ARG	163	4.496	14.345	16.441	1.00	0.00
ATOM	2516	2HD	ARG	163	3.807	12.779	16.861	1.00	0.00
ATOM	2517	HE	ARG	163	6.187	12.277	17.684	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.419	14.273	14.896	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.910	13.906	14.082	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.107	11.755	16.591	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.430	12.474	15.030	1.00	0.00
ATOM	2522	N	GLU	164	4.687	13.803	21.949	1.00	0.00
ATOM	2523	CA	GLU	164	5.549	13.270	22.998	1.00	0.00
ATOM	2529	C	GLU	164	4.891	13.472	24.360	1.00	0.00
ATOM	2530	O	GLU	164	4.854	12.558	25.188	1.00	0.00
ATOM	2524	CB	GLU	164	6.933	13.918	22.958	1.00	0.00
ATOM	2525	CG	GLU	164	8.006	13.001	22.384	1.00	0.00
ATOM	2526	CD	GLU	164	9.156	12.764	23.340	1.00	0.00
ATOM	2527	OE1	GLU	164	8.951	12.860	24.563	1.00	0.00
ATOM	2528	OE2	GLU	164	10.271	12.458	22.867	1.00	0.00
ATOM	2531	H	GLU	164	4.933	14.639	21.495	1.00	0.00
ATOM	2532	HA	GLU	164	5.654	12.208	22.826	1.00	0.00



ATOM	2533	1HB	GLU	164	7.223	14.192	23.962	1.00	0.00
ATOM	2534	2HB	GLU	164	6.884	14.809	22.349	1.00	0.00
ATOM	2535	1HG	GLU	164	8.395	13.444	21.479	1.00	0.00
ATOM	2536	2HG	GLU	164	7.559	12.044	22.150	1.00	0.00
ATOM	2537	N	GLY	165	4.331	14.659	24.576	1.00	0.00
ATOM	2538	CA	GLY	165	3.648	14.931	25.826	1.00	0.00
ATOM	2539	C	GLY	165	2.364	14.129	25.927	1.00	0.00
ATOM	2540	O	GLY	165	1.834	13.909	27.015	1.00	0.00
ATOM	2541	H	GLY	165	4.358	15.348	23.874	1.00	0.00
ATOM	2542	1HA	GLY	165	3.413	15.983	25.882	1.00	0.00
ATOM	2543	2HA	GLY	165	4.299	14.667	26.648	1.00	0.00
ATOM	2544	N	ASN	166	1.885	13.690	24.771	1.00	0.00
ATOM	2545	CA	ASN	166	0.669	12.896	24.665	1.00	0.00
ATOM	2550	C	ASN	166	0.849	11.548	25.337	1.00	0.00
ATOM	2551	O	ASN	166	0.173	11.231	26.319	1.00	0.00
ATOM	2546	CB	ASN	166	0.330	12.670	23.187	1.00	0.00
ATOM	2547	CG	ASN	166	-1.107	12.266	22.952	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.438	11.083	22.951	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.965	13.250	22.727	1.00	0.00
ATOM	2552	H	ASN	166	2.376	13.906	23.951	1.00	0.00
ATOM	2553	HA	ASN	166	-0.138	13.432	25.140	1.00	0.00
ATOM	2554	1HB	ASN	166	0.968	11.889	22.798	1.00	0.00
ATOM	2555	2HB	ASN	166	0.518	13.577	22.636	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.626	14.169	22.726	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.909	13.016	22.568	1.00	0.00
ATOM	2558	N	TRP	167	1.765	10.754	24.790	1.00	0.00
ATOM	2559	CA	TRP	167	2.040	9.425	25.305	1.00	0.00
ATOM	2570	C	TRP	167	2.615	9.473	26.712	1.00	0.00
ATOM	2571	O	TRP	167	2.503	8.500	27.455	1.00	0.00
ATOM	2560	CB	TRP	167	2.952	8.638	24.348	1.00	0.00
ATOM	2561	CG	TRP	167	4.394	9.067	24.333	1.00	0.00
ATOM	2562	CD1	TRP	167	5.007	9.858	23.405	1.00	0.00
ATOM	2563	CD2	TRP	167	5.407	8.699	25.275	1.00	0.00
ATOM	2564	NE1	TRP	167	6.335	10.016	23.721	1.00	0.00
ATOM	2565	CE2	TRP	167	6.605	9.315	24.866	1.00	0.00
ATOM	2566	CE3	TRP	167	5.412	7.914	26.428	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.796	9.169	25.571	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.595	7.769	27.128	1.00	0.00
ATOM	2569	CH2	TRP	167	7.772	8.393	26.698	1.00	0.00
ATOM	2572	H	TRP	167	2.261	11.072	24.010	1.00	0.00
ATOM	2573	HA	TRP	167	1.089	8.910	25.359	1.00	0.00
ATOM	2574	1HB	TRP	167	2.568	8.739	23.343	1.00	0.00
ATOM	2575	2HB	TRP	167	2.928	7.595	24.626	1.00	0.00
ATOM	2576	HD1	TRP	167	4.506	10.296	22.552	1.00	0.00
ATOM	2577	HE1	TRP	167	6.983	10.548	23.212	1.00	0.00
ATOM	2578	HE3	TRP	167	4.506	7.426	26.774	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.712	9.644	25.252	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.619	7.164	28.023	1.00	0.00
ATOM	2581	HH2	TRP	167	8.674	8.251	27.277	1.00	0.00
ATOM	2582	N	ALA	168	3.212	10.597	27.088	1.00	0.00
ATOM	2583	CA	ALA	168	3.777	10.736	28.423	1.00	0.00
ATOM	2585	C	ALA	168	2.738	10.381	29.486	1.00	0.00
ATOM	2586	O	ALA	168	2.987	9.560	30.368	1.00	0.00
ATOM	2584	CB	ALA	168	4.303	12.149	28.636	1.00	0.00
ATOM	2587	H	ALA	168	3.269	11.350	26.457	1.00	0.00
ATOM	2588	HA	ALA	168	4.609	10.051	28.506	1.00	0.00
ATOM	2589	1HB	ALA	168	4.801	12.208	29.592	1.00	0.00
ATOM	2590	2HB	ALA	168	3.478	12.845	28.616	1.00	0.00
ATOM	2591	3HB	ALA	168	5.003	12.398	27.849	1.00	0.00
ATOM	2592	N	SER	169	1.573	11.004	29.392	1.00	0.00
ATOM	2593	CA	SER	169	0.496	10.759	30.339	1.00	0.00
ATOM	2596	C	SER	169	-0.417	9.593	29.931	1.00	0.00
ATOM	2597	O	SER	169	-1.201	9.110	30.748	1.00	0.00
ATOM	2594	CB	SER	169	-0.331	12.032	30.506	1.00	0.00
ATOM	2595	OG	SER	169	0.459	13.178	30.235	1.00	0.00
ATOM	2598	H	SER	169	1.432	11.651	28.666	1.00	0.00
ATOM	2599	HA	SER	169	0.949	10.519	31.289	1.00	0.00
ATOM	2600	1HB	SER	169	-0.699	12.093	31.518	1.00	0.00
ATOM	2601	2HB	SER	169	-1.164	12.011	29.818	1.00	0.00
ATOM	2602	HG	SER	169	1.207	13.202	30.849	1.00	0.00
ATOM	2603	N	VAL	170	-0.370	9.161	28.671	1.00	0.00
ATOM	2604	CA	VAL	170	-1.268	8.087	28.241	1.00	0.00
ATOM	2608	C	VAL	170	-0.605	6.715	28.147	1.00	0.00



ATOM	2609	O	VAL	170	-1.238	5.703	28.428	1.00	0.00
ATOM	2605	CB	VAL	170	-1.963	8.402	26.895	1.00	0.00
ATOM	2606	CG1	VAL	170	-2.775	9.685	26.991	1.00	0.00
ATOM	2607	CG2	VAL	170	-0.972	8.474	25.749	1.00	0.00
ATOM	2610	H	VAL	170	0.239	9.587	28.025	1.00	0.00
ATOM	2611	HA	VAL	170	-2.044	8.019	28.990	1.00	0.00
ATOM	2612	HB	VAL	170	-2.640	7.593	26.687	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.700	9.487	27.512	1.00	0.00
ATOM	2614	2HG1	VAL	170	-2.992	10.048	25.997	1.00	0.00
ATOM	2615	3HG1	VAL	170	-2.208	10.430	27.530	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.483	8.280	24.817	1.00	0.00
ATOM	2617	2HG2	VAL	170	-0.198	7.735	25.896	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.529	9.458	25.716	1.00	0.00
ATOM	2619	N	ARG	171	0.645	6.670	27.738	1.00	0.00
ATOM	2620	CA	ARG	171	1.343	5.402	27.595	1.00	0.00
ATOM	2628	C	ARG	171	1.802	4.872	28.947	1.00	0.00
ATOM	2629	O	ARG	171	1.918	3.664	29.141	1.00	0.00
ATOM	2621	CB	ARG	171	2.520	5.564	26.640	1.00	0.00
ATOM	2622	CG	ARG	171	2.802	4.334	25.795	1.00	0.00
ATOM	2623	CD	ARG	171	4.213	4.375	25.242	1.00	0.00
ATOM	2624	NE	ARG	171	5.195	4.582	26.306	1.00	0.00
ATOM	2625	CZ	ARG	171	6.274	3.829	26.499	1.00	0.00
ATOM	2626	NH1	ARG	171	6.557	2.824	25.679	1.00	0.00
ATOM	2627	NH2	ARG	171	7.070	4.080	27.524	1.00	0.00
ATOM	2630	H	ARG	171	1.113	7.507	27.512	1.00	0.00
ATOM	2631	HA	ARG	171	0.648	4.694	27.168	1.00	0.00
ATOM	2632	1HB	ARG	171	3.406	5.793	27.212	1.00	0.00
ATOM	2633	2HB	ARG	171	2.310	6.390	25.971	1.00	0.00
ATOM	2634	1HG	ARG	171	2.101	4.301	24.973	1.00	0.00
ATOM	2635	2HG	ARG	171	2.688	3.452	26.407	1.00	0.00
ATOM	2636	1HD	ARG	171	4.281	5.190	24.533	1.00	0.00
ATOM	2637	2HD	ARG	171	4.422	3.440	24.743	1.00	0.00
ATOM	2638	HE	ARG	171	5.025	5.325	26.932	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.960	2.624	24.902	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.370	2.254	25.847	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.854	4.835	28.159	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.893	3.524	27.677	1.00	0.00
ATOM	2643	N	THR	172	2.042	5.776	29.883	1.00	0.00
ATOM	2644	CA	THR	172	2.466	5.385	31.218	1.00	0.00
ATOM	2648	C	THR	172	1.271	5.003	32.075	1.00	0.00
ATOM	2649	O	THR	172	1.419	4.355	33.103	1.00	0.00
ATOM	2645	CB	THR	172	3.276	6.504	31.892	1.00	0.00
ATOM	2646	OG1	THR	172	4.046	7.202	30.902	1.00	0.00
ATOM	2647	CG2	THR	172	4.206	5.946	32.960	1.00	0.00
ATOM	2650	H	THR	172	1.922	6.725	29.677	1.00	0.00
ATOM	2651	HA	THR	172	3.096	4.515	31.128	1.00	0.00
ATOM	2652	HB	THR	172	2.589	7.189	32.355	1.00	0.00
ATOM	2653	HG1	THR	172	3.745	8.124	30.849	1.00	0.00
ATOM	2654	1HG2	THR	172	5.173	5.742	32.525	1.00	0.00
ATOM	2655	2HG2	THR	172	3.790	5.033	33.359	1.00	0.00
ATOM	2656	3HG2	THR	172	4.314	6.670	33.754	1.00	0.00
ATOM	2657	N	VAL	173	0.078	5.366	31.625	1.00	0.00
ATOM	2658	CA	VAL	173	-1.127	5.005	32.353	1.00	0.00
ATOM	2662	C	VAL	173	-1.517	3.572	31.991	1.00	0.00
ATOM	2663	O	VAL	173	-2.396	2.967	32.606	1.00	0.00
ATOM	2659	CB	VAL	173	-2.286	5.992	32.059	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.265	5.427	31.041	1.00	0.00
ATOM	2661	CG2	VAL	173	-3.008	6.367	33.346	1.00	0.00
ATOM	2664	H	VAL	173	0.004	5.859	30.778	1.00	0.00
ATOM	2665	HA	VAL	173	-0.900	5.047	33.410	1.00	0.00
ATOM	2666	HB	VAL	173	-1.857	6.890	31.643	1.00	0.00
ATOM	2667	1HG1	VAL	173	-2.767	5.312	30.090	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.100	6.104	30.931	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.622	4.466	31.379	1.00	0.00
ATOM	2670	1HG2	VAL	173	-2.916	7.431	33.513	1.00	0.00
ATOM	2671	2HG2	VAL	173	-2.567	5.834	34.174	1.00	0.00
ATOM	2672	3HG2	VAL	173	-4.053	6.105	33.264	1.00	0.00
ATOM	2673	N	LEU	174	-0.829	3.040	30.982	1.00	0.00
ATOM	2674	CA	LEU	174	-1.066	1.684	30.505	1.00	0.00
ATOM	2679	C	LEU	174	-0.393	0.650	31.391	1.00	0.00
ATOM	2680	O	LEU	174	-0.620	-0.548	31.215	1.00	0.00
ATOM	2675	CB	LEU	174	-0.567	1.530	29.069	1.00	0.00
ATOM	2676	CG	LEU	174	-1.180	2.507	28.072	1.00	0.00



ATOM	2677	CD1	LEU	174	-0.595	2.293	26.685	1.00	0.00
ATOM	2678	CD2	LEU	174	-2.695	2.359	28.049	1.00	0.00
ATOM	2681	H	LEU	174	-0.139	3.581	30.546	1.00	0.00
ATOM	2682	HA	LEU	174	-2.132	1.512	30.522	1.00	0.00
ATOM	2683	1HB	LEU	174	-0.787	0.527	28.738	1.00	0.00
ATOM	2684	2HB	LEU	174	0.505	1.668	29.065	1.00	0.00
ATOM	2685	HG	LEU	174	-0.946	3.514	28.385	1.00	0.00
ATOM	2686	1HD1	LEU	174	-0.104	1.331	26.646	1.00	0.00
ATOM	2687	2HD1	LEU	174	0.123	3.071	26.474	1.00	0.00
ATOM	2688	3HD1	LEU	174	-1.386	2.323	25.950	1.00	0.00
ATOM	2689	1HD2	LEU	174	-2.983	1.722	27.226	1.00	0.00
ATOM	2690	2HD2	LEU	174	-3.150	3.332	27.928	1.00	0.00
ATOM	2691	3HD2	LEU	174	-3.029	1.920	28.977	1.00	0.00
ATOM	2692	N	THR	175	0.436	1.103	32.333	1.00	0.00
ATOM	2693	CA	THR	175	1.126	0.186	33.241	1.00	0.00
ATOM	2697	C	THR	175	0.115	-0.681	33.994	1.00	0.00
ATOM	2698	O	THR	175	-0.472	-0.253	34.989	1.00	0.00
ATOM	2694	CB	THR	175	2.001	0.943	34.256	1.00	0.00
ATOM	2695	OG1	THR	175	1.303	2.095	34.740	1.00	0.00
ATOM	2696	CG2	THR	175	3.315	1.372	33.623	1.00	0.00
ATOM	2699	H	THR	175	0.588	2.077	32.417	1.00	0.00
ATOM	2700	HA	THR	175	1.765	-0.454	32.649	1.00	0.00
ATOM	2701	HB	THR	175	2.216	0.287	35.087	1.00	0.00
ATOM	2702	HG1	THR	175	0.452	1.822	35.103	1.00	0.00
ATOM	2703	1HG2	THR	175	4.089	0.667	33.885	1.00	0.00
ATOM	2704	2HG2	THR	175	3.584	2.353	33.985	1.00	0.00
ATOM	2705	3HG2	THR	175	3.205	1.404	32.549	1.00	0.00
ATOM	2706	N	GLY	176	-0.104	-1.886	33.485	1.00	0.00
ATOM	2707	CA	GLY	176	-1.062	-2.796	34.080	1.00	0.00
ATOM	2708	C	GLY	176	-1.832	-3.552	33.014	1.00	0.00
ATOM	2709	O	GLY	176	-2.332	-4.650	33.253	1.00	0.00
ATOM	2710	H	GLY	176	0.375	-2.152	32.675	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.757	-2.234	34.684	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.537	-3.503	34.706	1.00	0.00
ATOM	2713	N	ALA	177	-1.902	-2.961	31.822	1.00	0.00
ATOM	2714	CA	ALA	177	-2.593	-3.565	30.680	1.00	0.00
ATOM	2716	C	ALA	177	-1.759	-4.683	30.060	1.00	0.00
ATOM	2717	O	ALA	177	-2.047	-5.152	28.963	1.00	0.00
ATOM	2715	CB	ALA	177	-2.900	-2.499	29.639	1.00	0.00
ATOM	2718	H	ALA	177	-1.464	-2.086	31.700	1.00	0.00
ATOM	2719	HA	ALA	177	-3.533	-3.978	31.023	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.912	-2.146	29.773	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.794	-2.921	28.650	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.212	-1.675	29.754	1.00	0.00
ATOM	2723	N	VAL	178	-0.733	-5.119	30.778	1.00	0.00
ATOM	2724	CA	VAL	178	0.129	-6.195	30.310	1.00	0.00
ATOM	2728	C	VAL	178	-0.500	-7.537	30.661	1.00	0.00
ATOM	2729	O	VAL	178	-0.014	-8.263	31.528	1.00	0.00
ATOM	2725	CB	VAL	178	1.543	-6.114	30.932	1.00	0.00
ATOM	2726	CG1	VAL	178	2.580	-6.692	29.982	1.00	0.00
ATOM	2727	CG2	VAL	178	1.897	-4.679	31.297	1.00	0.00
ATOM	2730	H	VAL	178	-0.563	-4.719	31.652	1.00	0.00
ATOM	2731	HA	VAL	178	0.217	-6.115	29.236	1.00	0.00
ATOM	2732	HB	VAL	178	1.551	-6.704	31.837	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.777	-7.721	30.246	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.494	-6.121	30.056	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.208	-6.645	28.970	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.707	-4.678	32.012	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.035	-4.193	31.729	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.202	-4.146	30.408	1.00	0.00
ATOM	2739	N	ALA	179	-1.604	-7.846	30.000	1.00	0.00
ATOM	2740	CA	ALA	179	-2.322	-9.087	30.252	1.00	0.00
ATOM	2742	C	ALA	179	-1.987	-10.135	29.200	1.00	0.00
ATOM	2743	O	ALA	179	-2.501	-11.252	29.237	1.00	0.00
ATOM	2741	CB	ALA	179	-3.821	-8.834	30.297	1.00	0.00
ATOM	2744	H	ALA	179	-1.955	-7.211	29.338	1.00	0.00
ATOM	2745	HA	ALA	179	-2.016	-9.455	31.219	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.087	-8.111	29.540	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.093	-8.452	31.270	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.347	-9.759	30.113	1.00	0.00
ATOM	2749	N	LEU	180	-1.115	-9.775	28.269	1.00	0.00
ATOM	2750	CA	LEU	180	-0.708	-10.696	27.221	1.00	0.00
ATOM	2755	C	LEU	180	0.462	-11.543	27.709	1.00	0.00



ATOM	2756	O	LEU	180	0.543	-12.740	27.423	1.00	0.00
ATOM	2751	CB	LEU	180	-0.327	-9.936	25.950	1.00	0.00
ATOM	2752	CG	LEU	180	-1.286	-8.814	25.547	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.603	-7.844	24.596	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.543	-9.384	24.909	1.00	0.00
ATOM	2757	H	LEU	180	-0.727	-8.875	28.293	1.00	0.00
ATOM	2758	HA	LEU	180	-1.543	-11.346	27.008	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.276	-10.643	25.135	1.00	0.00
ATOM	2760	2HB	LEU	180	0.653	-9.506	26.094	1.00	0.00
ATOM	2761	HG	LEU	180	-1.579	-8.264	26.431	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.712	-6.837	24.970	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.061	-7.915	23.620	1.00	0.00
ATOM	2764	3HD1	LEU	180	0.445	-8.091	24.522	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.987	-10.110	25.574	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.288	-9.860	23.974	1.00	0.00
ATOM	2767	3HD2	LEU	180	-3.248	-8.586	24.726	1.00	0.00
ATOM	2768	N	GLY	181	1.356	-10.909	28.454	1.00	0.00
ATOM	2769	CA	GLY	181	2.510	-11.591	28.996	1.00	0.00
ATOM	2770	C	GLY	181	2.143	-12.475	30.172	1.00	0.00
ATOM	2771	O	GLY	181	2.048	-12.006	31.307	1.00	0.00
ATOM	2772	H	GLY	181	1.230	-9.957	28.642	1.00	0.00
ATOM	2773	1HA	GLY	181	3.232	-10.858	29.321	1.00	0.00
ATOM	2774	2HA	GLY	181	2.953	-12.201	28.222	1.00	0.00
ATOM	2775	N	ALA	182	1.923	-13.751	29.895	1.00	0.00
ATOM	2776	CA	ALA	182	1.549	-14.707	30.927	1.00	0.00
ATOM	2778	C	ALA	182	2.768	-15.195	31.701	1.00	0.00
ATOM	2779	O	ALA	182	3.487	-16.088	31.253	1.00	0.00
ATOM	2777	CB	ALA	182	0.813	-15.885	30.308	1.00	0.00
ATOM	2780	H	ALA	182	2.006	-14.056	28.966	1.00	0.00
ATOM	2781	HA	ALA	182	0.875	-14.212	31.611	1.00	0.00
ATOM	2782	1HB	ALA	182	0.781	-16.700	31.016	1.00	0.00
ATOM	2783	2HB	ALA	182	1.329	-16.203	29.415	1.00	0.00
ATOM	2784	3HB	ALA	182	-0.194	-15.588	30.056	1.00	0.00
ATOM	2785	N	LEU	183	2.989	-14.606	32.866	1.00	0.00
ATOM	2790	CA	LEU	183	4.111	-14.978	33.715	1.00	0.00
ATOM	2791	C	LEU	183	3.651	-15.064	35.163	1.00	0.00
ATOM	2792	O	LEU	183	2.470	-14.739	35.426	1.00	0.00
ATOM	2786	CB	LEU	183	5.247	-13.959	33.587	1.00	0.00
ATOM	2787	CG	LEU	183	6.041	-14.029	32.280	1.00	0.00
ATOM	2788	CD1	LEU	183	6.441	-12.635	31.826	1.00	0.00
ATOM	2789	CD2	LEU	183	7.267	-14.913	32.447	1.00	0.00
ATOM	2793	OXT	LEU	183	4.461	-15.448	36.030	1.00	0.00
ATOM	2794	H	LEU	183	2.376	-13.905	33.170	1.00	0.00
ATOM	2795	HA	LEU	183	4.464	-15.949	33.399	1.00	0.00
ATOM	2796	1HB	LEU	183	5.933	-14.113	34.406	1.00	0.00
ATOM	2797	2HB	LEU	183	4.824	-12.969	33.675	1.00	0.00
ATOM	2798	HG	LEU	183	5.417	-14.463	31.512	1.00	0.00
ATOM	2799	1HD1	LEU	183	7.499	-12.492	31.994	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.884	-11.899	32.388	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.227	-12.523	30.773	1.00	0.00
ATOM	2802	1HD2	LEU	183	8.048	-14.356	32.946	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.617	-15.231	31.476	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.010	-15.780	33.038	1.00	0.00
ENDMDL									
MODEL					7				
ATOM	3	N	GLY	-4	-5.199	2.893	-16.287	1.00	0.00
ATOM	4	CA	GLY	-4	-6.279	2.169	-16.998	1.00	0.00
ATOM	1	C	GLY	-4	-6.927	1.116	-16.122	1.00	0.00
ATOM	2	O	GLY	-4	-6.921	1.243	-14.898	1.00	0.00
ATOM	5	1HA	GLY	-4	-7.032	2.878	-17.307	1.00	0.00
ATOM	6	2HA	GLY	-4	-5.865	1.691	-17.874	1.00	0.00
ATOM	7	1HT	GLY	-4	-4.940	2.388	-15.412	1.00	0.00
ATOM	8	2HT	GLY	-4	-5.514	3.854	-16.037	1.00	0.00
ATOM	9	3HT	GLY	-4	-4.354	2.966	-16.896	1.00	0.00
ATOM	10	N	PRO	-3	-7.498	0.058	-16.720	1.00	0.00
ATOM	11	CA	PRO	-3	-8.153	-1.022	-15.971	1.00	0.00
ATOM	15	C	PRO	-3	-7.176	-1.765	-15.063	1.00	0.00
ATOM	16	O	PRO	-3	-6.092	-2.166	-15.495	1.00	0.00
ATOM	12	CB	PRO	-3	-8.679	-1.961	-17.065	1.00	0.00
ATOM	13	CG	PRO	-3	-8.683	-1.145	-18.312	1.00	0.00
ATOM	14	CD	PRO	-3	-7.550	-0.174	-18.169	1.00	0.00
ATOM	17	HA	PRO	-3	-8.979	-0.652	-15.382	1.00	0.00
ATOM	18	1HB	PRO	-3	-9.673	-2.294	-16.808	1.00	0.00



ATOM	19	2HB	PRO	-3	-8.021	-2.813	-17.155	1.00	0.00
ATOM	20	1HG	PRO	-3	-9.621	-0.615	-18.404	1.00	0.00
ATOM	21	2HG	PRO	-3	-8.526	-1.782	-19.169	1.00	0.00
ATOM	22	1HD	PRO	-3	-7.764	0.742	-18.700	1.00	0.00
ATOM	23	2HD	PRO	-3	-6.629	-0.614	-18.524	1.00	0.00
ATOM	24	N	LEU	-2	-7.561	-1.934	-13.804	1.00	0.00
ATOM	25	CA	LEU	-2	-6.721	-2.616	-12.827	1.00	0.00
ATOM	30	C	LEU	-2	-6.600	-4.101	-13.149	1.00	0.00
ATOM	31	O	LEU	-2	-5.497	-4.651	-13.194	1.00	0.00
ATOM	26	CB	LEU	-2	-7.295	-2.431	-11.421	1.00	0.00
ATOM	27	CG	LEU	-2	-6.948	-1.102	-10.747	1.00	0.00
ATOM	28	CD1	LEU	-2	-8.201	-0.260	-10.549	1.00	0.00
ATOM	29	CD2	LEU	-2	-6.252	-1.346	-9.417	1.00	0.00
ATOM	32	H	LEU	-2	-8.431	-1.583	-13.523	1.00	0.00
ATOM	33	HA	LEU	-2	-5.739	-2.170	-12.866	1.00	0.00
ATOM	34	1HB	LEU	-2	-6.927	-3.231	-10.796	1.00	0.00
ATOM	35	2HB	LEU	-2	-8.371	-2.510	-11.482	1.00	0.00
ATOM	36	HG	LEU	-2	-6.273	-0.547	-11.384	1.00	0.00
ATOM	37	1HD1	LEU	-2	-8.462	0.222	-11.480	1.00	0.00
ATOM	38	2HD1	LEU	-2	-8.017	0.490	-9.795	1.00	0.00
ATOM	39	3HD1	LEU	-2	-9.015	-0.896	-10.233	1.00	0.00
ATOM	40	1HD2	LEU	-2	-6.955	-1.198	-8.611	1.00	0.00
ATOM	41	2HD2	LEU	-2	-5.429	-0.655	-9.309	1.00	0.00
ATOM	42	3HD2	LEU	-2	-5.878	-2.359	-9.388	1.00	0.00
ATOM	43	N	GLY	-1	-7.735	-4.746	-13.376	1.00	0.00
ATOM	44	CA	GLY	-1	-7.725	-6.157	-13.691	1.00	0.00
ATOM	45	C	GLY	-1	-9.078	-6.655	-14.143	1.00	0.00
ATOM	46	O	GLY	-1	-9.636	-6.155	-15.120	1.00	0.00
ATOM	47	H	GLY	-1	-8.583	-4.262	-13.332	1.00	0.00
ATOM	48	1HA	GLY	-1	-7.424	-6.709	-12.813	1.00	0.00
ATOM	49	2HA	GLY	-1	-7.006	-6.334	-14.479	1.00	0.00
ATOM	50	N	SER	0	-9.601	-7.644	-13.435	1.00	0.00
ATOM	51	CA	SER	0	-10.893	-8.227	-13.759	1.00	0.00
ATOM	54	C	SER	0	-12.030	-7.283	-13.374	1.00	0.00
ATOM	55	O	SER	0	-13.011	-7.141	-14.103	1.00	0.00
ATOM	52	CB	SER	0	-11.038	-9.554	-13.018	1.00	0.00
ATOM	53	OG	SER	0	-10.003	-9.697	-12.056	1.00	0.00
ATOM	56	H	SER	0	-9.101	-8.003	-12.671	1.00	0.00
ATOM	57	HA	SER	0	-10.927	-8.409	-14.822	1.00	0.00
ATOM	58	1HB	SER	0	-10.976	-10.371	-13.722	1.00	0.00
ATOM	59	2HB	SER	0	-11.993	-9.583	-12.513	1.00	0.00
ATOM	60	HG	SER	0	-9.315	-10.288	-12.406	1.00	0.00
ATOM	61	N	MET	1	-11.885	-6.639	-12.225	1.00	0.00
ATOM	62	CA	MET	1	-12.892	-5.708	-11.737	1.00	0.00
ATOM	67	C	MET	1	-12.236	-4.427	-11.245	1.00	0.00
ATOM	68	O	MET	1	-11.044	-4.412	-10.934	1.00	0.00
ATOM	63	CB	MET	1	-13.717	-6.349	-10.615	1.00	0.00
ATOM	64	CG	MET	1	-12.922	-6.650	-9.353	1.00	0.00
ATOM	65	SD	MET	1	-13.752	-7.833	-8.273	1.00	0.00
ATOM	66	CE	MET	1	-12.510	-8.061	-7.001	1.00	0.00
ATOM	69	H	MET	1	-11.078	-6.791	-11.691	1.00	0.00
ATOM	70	HA	MET	1	-13.548	-5.468	-12.562	1.00	0.00
ATOM	71	1HB	MET	1	-14.136	-7.276	-10.978	1.00	0.00
ATOM	72	2HB	MET	1	-14.524	-5.680	-10.353	1.00	0.00
ATOM	73	1HG	MET	1	-12.772	-5.729	-8.809	1.00	0.00
ATOM	74	2HG	MET	1	-11.962	-7.057	-9.637	1.00	0.00
ATOM	75	1HE	MET	1	-12.129	-7.098	-6.696	1.00	0.00
ATOM	76	2HE	MET	1	-11.701	-8.660	-7.393	1.00	0.00
ATOM	77	3HE	MET	1	-12.950	-8.561	-6.152	1.00	0.00
ATOM	78	N	ALA	2	-13.016	-3.355	-11.181	1.00	0.00
ATOM	79	CA	ALA	2	-12.517	-2.065	-10.728	1.00	0.00
ATOM	81	C	ALA	2	-13.661	-1.191	-10.233	1.00	0.00
ATOM	82	O	ALA	2	-14.770	-1.245	-10.768	1.00	0.00
ATOM	80	CB	ALA	2	-11.762	-1.363	-11.849	1.00	0.00
ATOM	83	H	ALA	2	-13.958	-3.432	-11.447	1.00	0.00
ATOM	84	HA	ALA	2	-11.829	-2.239	-9.914	1.00	0.00
ATOM	85	1HB	ALA	2	-12.401	-0.620	-12.303	1.00	0.00
ATOM	86	2HB	ALA	2	-11.466	-2.088	-12.593	1.00	0.00
ATOM	87	3HB	ALA	2	-10.883	-0.883	-11.445	1.00	0.00
ATOM	88	N	THR	3	-13.392	-0.392	-9.213	1.00	0.00
ATOM	89	CA	THR	3	-14.392	0.491	-8.651	1.00	0.00
ATOM	93	C	THR	3	-14.083	1.941	-9.012	1.00	0.00
ATOM	94	O	THR	3	-12.935	2.378	-8.914	1.00	0.00



ATOM	90	CB	THR	3	-14.473	0.337	-7.116	1.00	0.00
ATOM	91	OG1	THR	3	-13.478	1.148	-6.478	1.00	0.00
ATOM	92	CG2	THR	3	-14.276	-1.114	-6.694	1.00	0.00
ATOM	95	H	THR	3	-12.495	-0.392	-8.826	1.00	0.00
ATOM	96	HA	THR	3	-15.350	0.223	-9.072	1.00	0.00
ATOM	97	HB	THR	3	-15.448	0.657	-6.794	1.00	0.00
ATOM	98	HG1	THR	3	-12.924	1.569	-7.149	1.00	0.00
ATOM	99	1HG2	THR	3	-14.548	-1.768	-7.509	1.00	0.00
ATOM	100	2HG2	THR	3	-14.899	-1.328	-5.838	1.00	0.00
ATOM	101	3HG2	THR	3	-13.239	-1.275	-6.433	1.00	0.00
ATOM	102	N	PRO	4	-15.098	2.707	-9.443	1.00	0.00
ATOM	103	CA	PRO	4	-14.930	4.109	-9.831	1.00	0.00
ATOM	107	C	PRO	4	-14.803	5.040	-8.627	1.00	0.00
ATOM	108	O	PRO	4	-14.689	6.255	-8.779	1.00	0.00
ATOM	104	CB	PRO	4	-16.211	4.431	-10.622	1.00	0.00
ATOM	105	CG	PRO	4	-16.966	3.141	-10.732	1.00	0.00
ATOM	106	CD	PRO	4	-16.489	2.275	-9.603	1.00	0.00
ATOM	109	HA	PRO	4	-14.071	4.237	-10.469	1.00	0.00
ATOM	110	1HB	PRO	4	-15.946	4.811	-11.596	1.00	0.00
ATOM	111	2HB	PRO	4	-16.785	5.172	-10.087	1.00	0.00
ATOM	112	1HG	PRO	4	-16.753	2.670	-11.681	1.00	0.00
ATOM	113	2HG	PRO	4	-18.025	3.327	-10.636	1.00	0.00
ATOM	114	1HD	PRO	4	-16.543	1.231	-9.873	1.00	0.00
ATOM	115	2HD	PRO	4	-17.061	2.470	-8.707	1.00	0.00
ATOM	116	N	ALA	5	-14.820	4.460	-7.435	1.00	0.00
ATOM	117	CA	ALA	5	-14.706	5.225	-6.202	1.00	0.00
ATOM	119	C	ALA	5	-14.187	4.345	-5.069	1.00	0.00
ATOM	120	O	ALA	5	-14.964	3.793	-4.289	1.00	0.00
ATOM	118	CB	ALA	5	-16.049	5.838	-5.828	1.00	0.00
ATOM	121	H	ALA	5	-14.909	3.488	-7.385	1.00	0.00
ATOM	122	HA	ALA	5	-14.003	6.030	-6.372	1.00	0.00
ATOM	123	1HB	ALA	5	-16.597	6.078	-6.727	1.00	0.00
ATOM	124	2HB	ALA	5	-15.888	6.739	-5.255	1.00	0.00
ATOM	125	3HB	ALA	5	-16.616	5.133	-5.239	1.00	0.00
ATOM	126	N	SER	6	-12.873	4.206	-4.992	1.00	0.00
ATOM	127	CA	SER	6	-12.250	3.385	-3.965	1.00	0.00
ATOM	130	C	SER	6	-11.694	4.252	-2.836	1.00	0.00
ATOM	131	O	SER	6	-10.734	4.999	-3.032	1.00	0.00
ATOM	128	CB	SER	6	-11.131	2.547	-4.586	1.00	0.00
ATOM	129	OG	SER	6	-10.788	3.034	-5.877	1.00	0.00
ATOM	132	H	SER	6	-12.303	4.659	-5.647	1.00	0.00
ATOM	133	HA	SER	6	-13.004	2.723	-3.562	1.00	0.00
ATOM	134	1HB	SER	6	-11.459	1.522	-4.677	1.00	0.00
ATOM	135	2HB	SER	6	-10.256	2.590	-3.954	1.00	0.00
ATOM	136	HG	SER	6	-10.103	3.713	-5.792	1.00	0.00
ATOM	137	N	ALA	7	-12.303	4.149	-1.660	1.00	0.00
ATOM	138	CA	ALA	7	-11.874	4.925	-0.502	1.00	0.00
ATOM	140	C	ALA	7	-11.027	4.076	0.444	1.00	0.00
ATOM	141	O	ALA	7	-11.402	2.954	0.791	1.00	0.00
ATOM	139	CB	ALA	7	-13.084	5.489	0.228	1.00	0.00
ATOM	142	H	ALA	7	-13.064	3.539	-1.567	1.00	0.00
ATOM	143	HA	ALA	7	-11.278	5.754	-0.858	1.00	0.00
ATOM	144	1HB	ALA	7	-13.448	4.759	0.937	1.00	0.00
ATOM	145	2HB	ALA	7	-13.862	5.715	-0.486	1.00	0.00
ATOM	146	3HB	ALA	7	-12.801	6.389	0.751	1.00	0.00
ATOM	147	N	PRO	8	-9.870	4.599	0.874	1.00	0.00
ATOM	148	CA	PRO	8	-8.965	3.905	1.779	1.00	0.00
ATOM	152	C	PRO	8	-9.296	4.195	3.244	1.00	0.00
ATOM	153	O	PRO	8	-8.624	4.993	3.898	1.00	0.00
ATOM	149	CB	PRO	8	-7.587	4.479	1.408	1.00	0.00
ATOM	150	CG	PRO	8	-7.845	5.683	0.543	1.00	0.00
ATOM	151	CD	PRO	8	-9.334	5.911	0.515	1.00	0.00
ATOM	154	HA	PRO	8	-8.973	2.838	1.611	1.00	0.00
ATOM	155	1HB	PRO	8	-7.021	3.730	0.874	1.00	0.00
ATOM	156	2HB	PRO	8	-7.060	4.753	2.310	1.00	0.00
ATOM	157	1HG	PRO	8	-7.478	5.496	-0.456	1.00	0.00
ATOM	158	2HG	PRO	8	-7.348	6.544	0.964	1.00	0.00
ATOM	159	1HD	PRO	8	-9.655	6.203	-0.474	1.00	0.00
ATOM	160	2HD	PRO	8	-9.617	6.657	1.243	1.00	0.00
ATOM	161	N	ASP	9	-10.347	3.555	3.747	1.00	0.00
ATOM	162	CA	ASP	9	-10.775	3.761	5.129	1.00	0.00
ATOM	167	C	ASP	9	-10.031	2.834	6.096	1.00	0.00
ATOM	168	O	ASP	9	-8.958	2.321	5.772	1.00	0.00



ATOM	163	CB	ASP	9	-12.290	3.569	5.259	1.00	0.00
ATOM	164	CG	ASP	9	-12.913	4.592	6.191	1.00	0.00
ATOM	165	OD1	ASP	9	-12.457	4.699	7.346	1.00	0.00
ATOM	166	OD2	ASP	9	-13.852	5.299	5.767	1.00	0.00
ATOM	169	H	ASP	9	-10.852	2.944	3.174	1.00	0.00
ATOM	170	HA	ASP	9	-10.537	4.782	5.390	1.00	0.00
ATOM	171	1HB	ASP	9	-12.491	2.582	5.648	1.00	0.00
ATOM	172	2HB	ASP	9	-12.745	3.671	4.285	1.00	0.00
ATOM	173	N	THR	10	-10.600	2.648	7.285	1.00	0.00
ATOM	174	CA	THR	10	-10.014	1.821	8.336	1.00	0.00
ATOM	178	C	THR	10	-9.577	0.446	7.843	1.00	0.00
ATOM	179	O	THR	10	-8.484	-0.008	8.167	1.00	0.00
ATOM	175	CB	THR	10	-11.010	1.637	9.493	1.00	0.00
ATOM	176	OG1	THR	10	-12.345	1.846	9.013	1.00	0.00
ATOM	177	CG2	THR	10	-10.712	2.607	10.627	1.00	0.00
ATOM	180	H	THR	10	-11.451	3.108	7.476	1.00	0.00
ATOM	181	HA	THR	10	-9.147	2.341	8.719	1.00	0.00
ATOM	182	HB	THR	10	-10.924	0.627	9.869	1.00	0.00
ATOM	183	HG1	THR	10	-12.902	1.087	9.265	1.00	0.00
ATOM	184	1HG2	THR	10	-11.578	2.688	11.267	1.00	0.00
ATOM	185	2HG2	THR	10	-10.476	3.578	10.217	1.00	0.00
ATOM	186	3HG2	THR	10	-9.872	2.244	11.200	1.00	0.00
ATOM	187	N	ARG	11	-10.429	-0.222	7.075	1.00	0.00
ATOM	188	CA	ARG	11	-10.106	-1.554	6.567	1.00	0.00
ATOM	196	C	ARG	11	-8.872	-1.520	5.667	1.00	0.00
ATOM	197	O	ARG	11	-8.081	-2.462	5.654	1.00	0.00
ATOM	189	CB	ARG	11	-11.301	-2.159	5.821	1.00	0.00
ATOM	190	CG	ARG	11	-11.787	-1.332	4.644	1.00	0.00
ATOM	191	CD	ARG	11	-12.681	-2.150	3.729	1.00	0.00
ATOM	192	NE	ARG	11	-11.929	-3.153	2.975	1.00	0.00
ATOM	193	CZ	ARG	11	-12.490	-4.192	2.356	1.00	0.00
ATOM	194	NH1	ARG	11	-13.805	-4.355	2.387	1.00	0.00
ATOM	195	NH2	ARG	11	-11.732	-5.063	1.703	1.00	0.00
ATOM	198	H	ARG	11	-11.296	0.185	6.858	1.00	0.00
ATOM	199	HA	ARG	11	-9.877	-2.178	7.419	1.00	0.00
ATOM	200	1HB	ARG	11	-12.121	-2.272	6.516	1.00	0.00
ATOM	201	2HB	ARG	11	-11.020	-3.134	5.453	1.00	0.00
ATOM	202	1HG	ARG	11	-10.931	-0.985	4.082	1.00	0.00
ATOM	203	2HG	ARG	11	-12.344	-0.484	5.015	1.00	0.00
ATOM	204	1HD	ARG	11	-13.170	-1.482	3.034	1.00	0.00
ATOM	205	2HD	ARG	11	-13.426	-2.650	4.331	1.00	0.00
ATOM	206	HE	ARG	11	-10.954	-3.045	2.930	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.387	-3.697	2.872	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.231	-5.146	1.926	1.00	0.00
ATOM	209	1HH2	ARG	11	-10.731	-4.944	1.672	1.00	0.00
ATOM	210	2HH2	ARG	11	-12.154	-5.846	1.226	1.00	0.00
ATOM	211	N	ALA	12	-8.692	-0.429	4.942	1.00	0.00
ATOM	212	CA	ALA	12	-7.536	-0.289	4.075	1.00	0.00
ATOM	214	C	ALA	12	-6.315	0.084	4.900	1.00	0.00
ATOM	215	O	ALA	12	-5.196	-0.321	4.598	1.00	0.00
ATOM	213	CB	ALA	12	-7.796	0.751	2.999	1.00	0.00
ATOM	216	H	ALA	12	-9.337	0.307	5.006	1.00	0.00
ATOM	217	HA	ALA	12	-7.360	-1.241	3.595	1.00	0.00
ATOM	218	1HB	ALA	12	-8.166	0.263	2.108	1.00	0.00
ATOM	219	2HB	ALA	12	-6.878	1.269	2.769	1.00	0.00
ATOM	220	3HB	ALA	12	-8.531	1.459	3.353	1.00	0.00
ATOM	221	N	LEU	13	-6.544	0.860	5.952	1.00	0.00
ATOM	222	CA	LEU	13	-5.471	1.293	6.832	1.00	0.00
ATOM	227	C	LEU	13	-4.987	0.139	7.712	1.00	0.00
ATOM	228	O	LEU	13	-3.785	-0.036	7.908	1.00	0.00
ATOM	223	CB	LEU	13	-5.938	2.472	7.684	1.00	0.00
ATOM	224	CG	LEU	13	-5.162	2.699	8.980	1.00	0.00
ATOM	225	CD1	LEU	13	-3.932	3.559	8.725	1.00	0.00
ATOM	226	CD2	LEU	13	-6.061	3.343	10.022	1.00	0.00
ATOM	229	H	LEU	13	-7.468	1.151	6.141	1.00	0.00
ATOM	230	HA	LEU	13	-4.649	1.618	6.211	1.00	0.00
ATOM	231	1HB	LEU	13	-6.977	2.316	7.937	1.00	0.00
ATOM	232	2HB	LEU	13	-5.861	3.369	7.084	1.00	0.00
ATOM	233	HG	LEU	13	-4.829	1.746	9.366	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.198	3.377	9.496	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.213	4.601	8.735	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.513	3.310	7.761	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.460	3.705	10.841	1.00	0.00



ATOM	238	2HD2	LEU	13	-6.768	2.613	10.388	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.596	4.168	9.575	1.00	0.00
ATOM	240	N	VAL	14	-5.921	-0.656	8.229	1.00	0.00
ATOM	241	CA	VAL	14	-5.560	-1.793	9.070	1.00	0.00
ATOM	245	C	VAL	14	-4.803	-2.832	8.243	1.00	0.00
ATOM	246	O	VAL	14	-3.862	-3.461	8.729	1.00	0.00
ATOM	242	CB	VAL	14	-6.795	-2.441	9.762	1.00	0.00
ATOM	243	CG1	VAL	14	-7.664	-3.206	8.773	1.00	0.00
ATOM	244	CG2	VAL	14	-6.352	-3.351	10.900	1.00	0.00
ATOM	247	H	VAL	14	-6.869	-0.478	8.038	1.00	0.00
ATOM	248	HA	VAL	14	-4.898	-1.424	9.842	1.00	0.00
ATOM	249	HB	VAL	14	-7.398	-1.650	10.186	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.247	-2.507	8.191	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.327	-3.867	9.311	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.034	-3.786	8.114	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.210	-3.873	11.297	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.900	-2.756	11.680	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.634	-4.067	10.531	1.00	0.00
ATOM	256	N	ALA	15	-5.201	-2.987	6.983	1.00	0.00
ATOM	257	CA	ALA	15	-4.541	-3.928	6.087	1.00	0.00
ATOM	259	C	ALA	15	-3.181	-3.386	5.660	1.00	0.00
ATOM	260	O	ALA	15	-2.290	-4.145	5.285	1.00	0.00
ATOM	258	CB	ALA	15	-5.408	-4.204	4.869	1.00	0.00
ATOM	261	H	ALA	15	-5.952	-2.446	6.644	1.00	0.00
ATOM	262	HA	ALA	15	-4.399	-4.856	6.622	1.00	0.00
ATOM	263	1HB	ALA	15	-4.851	-3.979	3.972	1.00	0.00
ATOM	264	2HB	ALA	15	-6.292	-3.586	4.910	1.00	0.00
ATOM	265	3HB	ALA	15	-5.697	-5.245	4.861	1.00	0.00
ATOM	266	N	ASP	16	-3.037	-2.066	5.728	1.00	0.00
ATOM	267	CA	ASP	16	-1.794	-1.394	5.358	1.00	0.00
ATOM	272	C	ASP	16	-0.720	-1.611	6.418	1.00	0.00
ATOM	273	O	ASP	16	0.290	-2.260	6.160	1.00	0.00
ATOM	268	CB	ASP	16	-2.057	0.105	5.163	1.00	0.00
ATOM	269	CG	ASP	16	-0.822	0.983	5.330	1.00	0.00
ATOM	270	OD1	ASP	16	0.145	0.811	4.566	1.00	0.00
ATOM	271	OD2	ASP	16	-0.849	1.883	6.201	1.00	0.00
ATOM	274	H	ASP	16	-3.792	-1.523	6.040	1.00	0.00
ATOM	275	HA	ASP	16	-1.455	-1.817	4.425	1.00	0.00
ATOM	276	1HB	ASP	16	-2.798	0.423	5.883	1.00	0.00
ATOM	277	2HB	ASP	16	-2.445	0.264	4.169	1.00	0.00
ATOM	278	N	PHE	17	-0.950	-1.058	7.605	1.00	0.00
ATOM	279	CA	PHE	17	-0.005	-1.170	8.714	1.00	0.00
ATOM	287	C	PHE	17	0.339	-2.622	9.024	1.00	0.00
ATOM	288	O	PHE	17	1.514	-2.986	9.119	1.00	0.00
ATOM	280	CB	PHE	17	-0.566	-0.500	9.967	1.00	0.00
ATOM	281	CG	PHE	17	0.503	-0.069	10.931	1.00	0.00
ATOM	282	CD1	PHE	17	1.607	0.647	10.493	1.00	0.00
ATOM	283	CD2	PHE	17	0.409	-0.394	12.272	1.00	0.00
ATOM	284	CE1	PHE	17	2.595	1.033	11.380	1.00	0.00
ATOM	285	CE2	PHE	17	1.393	-0.012	13.163	1.00	0.00
ATOM	286	CZ	PHE	17	2.486	0.702	12.716	1.00	0.00
ATOM	289	H	PHE	17	-1.777	-0.548	7.736	1.00	0.00
ATOM	290	HA	PHE	17	0.900	-0.657	8.425	1.00	0.00
ATOM	291	1HB	PHE	17	-1.216	-1.196	10.477	1.00	0.00
ATOM	292	2HB	PHE	17	-1.132	0.374	9.681	1.00	0.00
ATOM	293	HD1	PHE	17	-0.446	-0.952	12.624	1.00	0.00
ATOM	294	HD2	PHE	17	1.692	0.907	9.448	1.00	0.00
ATOM	295	HE1	PHE	17	1.307	-0.272	14.208	1.00	0.00
ATOM	296	HE2	PHE	17	3.450	1.592	11.028	1.00	0.00
ATOM	297	HZ	PHE	17	3.258	1.002	13.411	1.00	0.00
ATOM	298	N	VAL	18	-0.686	-3.447	9.183	1.00	0.00
ATOM	299	CA	VAL	18	-0.477	-4.855	9.483	1.00	0.00
ATOM	303	C	VAL	18	0.163	-5.559	8.292	1.00	0.00
ATOM	304	O	VAL	18	1.090	-6.349	8.455	1.00	0.00
ATOM	300	CB	VAL	18	-1.802	-5.554	9.867	1.00	0.00
ATOM	301	CG1	VAL	18	-1.601	-7.054	10.035	1.00	0.00
ATOM	302	CG2	VAL	18	-2.373	-4.945	11.141	1.00	0.00
ATOM	305	H	VAL	18	-1.601	-3.102	9.096	1.00	0.00
ATOM	306	HA	VAL	18	0.199	-4.916	10.324	1.00	0.00
ATOM	307	HB	VAL	18	-2.513	-5.397	9.070	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.745	-7.368	9.458	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.481	-7.576	9.688	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.434	-7.281	11.078	1.00	0.00



ATOM	311	1HG2	VAL	18	-3.445	-4.857	11.050	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.944	-3.965	11.294	1.00	0.00
ATOM	313	3HG2	VAL	18	-2.133	-5.577	11.983	1.00	0.00
ATOM	314	N	GLY	19	-0.316	-5.248	7.097	1.00	0.00
ATOM	315	CA	GLY	19	0.236	-5.849	5.899	1.00	0.00
ATOM	316	C	GLY	19	1.706	-5.538	5.729	1.00	0.00
ATOM	317	O	GLY	19	2.513	-6.440	5.543	1.00	0.00
ATOM	318	H	GLY	19	-1.042	-4.590	7.024	1.00	0.00
ATOM	319	1HA	GLY	19	-0.302	-5.474	5.041	1.00	0.00
ATOM	320	2HA	GLY	19	0.108	-6.920	5.954	1.00	0.00
ATOM	321	N	TYR	20	2.040	-4.259	5.785	1.00	0.00
ATOM	322	CA	TYR	20	3.414	-3.789	5.636	1.00	0.00
ATOM	331	C	TYR	20	4.345	-4.454	6.647	1.00	0.00
ATOM	332	O	TYR	20	5.431	-4.905	6.295	1.00	0.00
ATOM	323	CB	TYR	20	3.464	-2.270	5.821	1.00	0.00
ATOM	324	CG	TYR	20	4.519	-1.575	4.988	1.00	0.00
ATOM	325	CD1	TYR	20	5.833	-1.479	5.432	1.00	0.00
ATOM	326	CD2	TYR	20	4.198	-1.002	3.765	1.00	0.00
ATOM	327	CE1	TYR	20	6.795	-0.830	4.679	1.00	0.00
ATOM	328	CE2	TYR	20	5.154	-0.356	3.006	1.00	0.00
ATOM	329	CZ	TYR	20	6.448	-0.271	3.466	1.00	0.00
ATOM	330	OH	TYR	20	7.401	0.382	2.716	1.00	0.00
ATOM	333	H	TYR	20	1.330	-3.595	5.922	1.00	0.00
ATOM	334	HA	TYR	20	3.742	-4.032	4.637	1.00	0.00
ATOM	335	1HB	TYR	20	3.664	-2.050	6.859	1.00	0.00
ATOM	336	2HB	TYR	20	2.506	-1.852	5.551	1.00	0.00
ATOM	337	HD1	TYR	20	6.101	-1.918	6.381	1.00	0.00
ATOM	338	HD2	TYR	20	3.182	-1.070	3.405	1.00	0.00
ATOM	339	HE1	TYR	20	7.810	-0.766	5.040	1.00	0.00
ATOM	340	HE2	TYR	20	4.883	0.082	2.056	1.00	0.00
ATOM	341	HH	TYR	20	7.276	1.337	2.805	1.00	0.00
ATOM	342	N	LYS	21	3.913	-4.505	7.904	1.00	0.00
ATOM	343	CA	LYS	21	4.714	-5.104	8.968	1.00	0.00
ATOM	349	C	LYS	21	4.881	-6.605	8.758	1.00	0.00
ATOM	350	O	LYS	21	5.964	-7.153	8.965	1.00	0.00
ATOM	344	CB	LYS	21	4.074	-4.836	10.333	1.00	0.00
ATOM	345	CG	LYS	21	5.085	-4.540	11.430	1.00	0.00
ATOM	346	CD	LYS	21	4.634	-5.097	12.772	1.00	0.00
ATOM	347	CE	LYS	21	5.767	-5.102	13.787	1.00	0.00
ATOM	348	NZ	LYS	21	6.000	-3.752	14.364	1.00	0.00
ATOM	351	H	LYS	21	3.035	-4.122	8.123	1.00	0.00
ATOM	352	HA	LYS	21	5.689	-4.641	8.944	1.00	0.00
ATOM	353	1HB	LYS	21	3.502	-5.703	10.625	1.00	0.00
ATOM	354	2HB	LYS	21	3.410	-3.989	10.246	1.00	0.00
ATOM	355	1HG	LYS	21	5.204	-3.470	11.516	1.00	0.00
ATOM	356	2HG	LYS	21	6.031	-4.988	11.166	1.00	0.00
ATOM	357	1HD	LYS	21	4.286	-6.110	12.630	1.00	0.00
ATOM	358	2HD	LYS	21	3.828	-4.487	13.150	1.00	0.00
ATOM	359	1HE	LYS	21	6.670	-5.437	13.298	1.00	0.00
ATOM	360	2HE	LYS	21	5.515	-5.785	14.585	1.00	0.00
ATOM	361	1HZ	LYS	21	6.832	-3.304	13.911	1.00	0.00
ATOM	362	2HZ	LYS	21	6.194	-3.823	15.388	1.00	0.00
ATOM	363	3HZ	LYS	21	5.173	-3.146	14.220	1.00	0.00
ATOM	364	N	LEU	22	3.805	-7.261	8.348	1.00	0.00
ATOM	365	CA	LEU	22	3.826	-8.697	8.112	1.00	0.00
ATOM	370	C	LEU	22	4.656	-9.012	6.878	1.00	0.00
ATOM	371	O	LEU	22	5.508	-9.894	6.901	1.00	0.00
ATOM	366	CB	LEU	22	2.403	-9.234	7.930	1.00	0.00
ATOM	367	CG	LEU	22	1.726	-9.761	9.198	1.00	0.00
ATOM	368	CD1	LEU	22	1.711	-8.696	10.281	1.00	0.00
ATOM	369	CD2	LEU	22	0.314	-10.224	8.883	1.00	0.00
ATOM	372	H	LEU	22	2.970	-6.767	8.204	1.00	0.00
ATOM	373	HA	LEU	22	4.277	-9.172	8.971	1.00	0.00
ATOM	374	1HB	LEU	22	2.434	-10.035	7.208	1.00	0.00
ATOM	375	2HB	LEU	22	1.792	-8.437	7.530	1.00	0.00
ATOM	376	HG	LEU	22	2.278	-10.609	9.577	1.00	0.00
ATOM	377	1HD1	LEU	22	2.569	-8.052	10.165	1.00	0.00
ATOM	378	2HD1	LEU	22	1.745	-9.169	11.252	1.00	0.00
ATOM	379	3HD1	LEU	22	0.807	-8.109	10.199	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.190	-9.468	8.300	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.224	-10.388	9.805	1.00	0.00
ATOM	382	3HD2	LEU	22	0.356	-11.146	8.321	1.00	0.00
ATOM	383	N	ARG	23	4.401	-8.270	5.808	1.00	0.00



ATOM	384	CA	ARG	23	5.113	-8.439	4.545	1.00	0.00
ATOM	392	C	ARG	23	6.596	-8.105	4.716	1.00	0.00
ATOM	393	O	ARG	23	7.431	-8.504	3.905	1.00	0.00
ATOM	385	CB	ARG	23	4.471	-7.548	3.467	1.00	0.00
ATOM	386	CG	ARG	23	4.777	-7.964	2.042	1.00	0.00
ATOM	387	CD	ARG	23	4.101	-7.031	1.046	1.00	0.00
ATOM	388	NE	ARG	23	4.964	-5.913	0.654	1.00	0.00
ATOM	389	CZ	ARG	23	5.868	-5.959	-0.332	1.00	0.00
ATOM	390	NH1	ARG	23	6.059	-7.077	-1.019	1.00	0.00
ATOM	391	NH2	ARG	23	6.583	-4.878	-0.621	1.00	0.00
ATOM	394	H	ARG	23	3.708	-7.573	5.871	1.00	0.00
ATOM	395	HA	ARG	23	5.021	-9.473	4.248	1.00	0.00
ATOM	396	1HB	ARG	23	4.808	-6.534	3.598	1.00	0.00
ATOM	397	2HB	ARG	23	3.399	-7.574	3.595	1.00	0.00
ATOM	398	1HG	ARG	23	4.416	-8.970	1.884	1.00	0.00
ATOM	399	2HG	ARG	23	5.845	-7.931	1.886	1.00	0.00
ATOM	400	1HD	ARG	23	3.194	-6.629	1.498	1.00	0.00
ATOM	401	2HD	ARG	23	3.841	-7.596	0.163	1.00	0.00
ATOM	402	HE	ARG	23	4.855	-5.066	1.153	1.00	0.00
ATOM	403	1HH1	ARG	23	5.530	-7.897	-0.806	1.00	0.00
ATOM	404	2HH1	ARG	23	6.747	-7.108	-1.763	1.00	0.00
ATOM	405	1HH2	ARG	23	6.449	-4.031	-0.105	1.00	0.00
ATOM	406	2HH2	ARG	23	7.267	-4.903	-1.369	1.00	0.00
ATOM	407	N	GLN	24	6.909	-7.378	5.783	1.00	0.00
ATOM	408	CA	GLN	24	8.280	-6.991	6.083	1.00	0.00
ATOM	414	C	GLN	24	9.051	-8.144	6.718	1.00	0.00
ATOM	415	O	GLN	24	10.255	-8.289	6.497	1.00	0.00
ATOM	409	CB	GLN	24	8.291	-5.797	7.035	1.00	0.00
ATOM	410	CG	GLN	24	9.073	-4.606	6.514	1.00	0.00
ATOM	411	CD	GLN	24	9.693	-3.781	7.627	1.00	0.00
ATOM	412	OE1	GLN	24	9.799	-4.229	8.772	1.00	0.00
ATOM	413	NE2	GLN	24	10.109	-2.568	7.302	1.00	0.00
ATOM	416	H	GLN	24	6.192	-7.094	6.392	1.00	0.00
ATOM	417	HA	GLN	24	8.761	-6.710	5.158	1.00	0.00
ATOM	418	1HB	GLN	24	8.729	-6.105	7.974	1.00	0.00
ATOM	419	2HB	GLN	24	7.273	-5.482	7.211	1.00	0.00
ATOM	420	1HG	GLN	24	8.402	-3.978	5.948	1.00	0.00
ATOM	421	2HG	GLN	24	9.861	-4.965	5.868	1.00	0.00
ATOM	422	1HE2	GLN	24	9.995	-2.274	6.374	1.00	0.00
ATOM	423	2HE2	GLN	24	10.514	-2.013	8.000	1.00	0.00
ATOM	424	N	LYS	25	8.359	-8.950	7.521	1.00	0.00
ATOM	425	CA	LYS	25	8.997	-10.075	8.198	1.00	0.00
ATOM	431	C	LYS	25	7.985	-11.159	8.567	1.00	0.00
ATOM	432	O	LYS	25	7.579	-11.279	9.723	1.00	0.00
ATOM	426	CB	LYS	25	9.736	-9.594	9.458	1.00	0.00
ATOM	427	CG	LYS	25	9.049	-8.443	10.183	1.00	0.00
ATOM	428	CD	LYS	25	10.061	-7.491	10.800	1.00	0.00
ATOM	429	CE	LYS	25	9.383	-6.288	11.437	1.00	0.00
ATOM	430	NZ	LYS	25	10.242	-5.073	11.385	1.00	0.00
ATOM	433	H	LYS	25	7.403	-8.776	7.670	1.00	0.00
ATOM	434	HA	LYS	25	9.718	-10.499	7.516	1.00	0.00
ATOM	435	1HB	LYS	25	10.728	-9.270	9.175	1.00	0.00
ATOM	436	2HB	LYS	25	9.823	-10.420	10.147	1.00	0.00
ATOM	437	1HG	LYS	25	8.422	-8.845	10.964	1.00	0.00
ATOM	438	2HG	LYS	25	8.442	-7.897	9.475	1.00	0.00
ATOM	439	1HD	LYS	25	10.732	-7.145	10.027	1.00	0.00
ATOM	440	2HD	LYS	25	10.623	-8.018	11.557	1.00	0.00
ATOM	441	1HE	LYS	25	9.165	-6.521	12.471	1.00	0.00
ATOM	442	2HE	LYS	25	8.462	-6.089	10.913	1.00	0.00
ATOM	443	1HZ	LYS	25	11.219	-5.314	11.665	1.00	0.00
ATOM	444	2HZ	LYS	25	9.879	-4.346	12.032	1.00	0.00
ATOM	445	3HZ	LYS	25	10.256	-4.686	10.416	1.00	0.00
ATOM	446	N	GLY	26	7.589	-11.952	7.583	1.00	0.00
ATOM	447	CA	GLY	26	6.641	-13.019	7.836	1.00	0.00
ATOM	448	C	GLY	26	5.783	-13.333	6.636	1.00	0.00
ATOM	449	O	GLY	26	5.929	-14.378	6.005	1.00	0.00
ATOM	450	H	GLY	26	7.945	-11.812	6.681	1.00	0.00
ATOM	451	1HA	GLY	26	5.999	-12.726	8.654	1.00	0.00
ATOM	452	2HA	GLY	26	7.180	-13.908	8.121	1.00	0.00
ATOM	453	N	TYR	27	4.897	-12.416	6.314	1.00	0.00
ATOM	454	CA	TYR	27	4.001	-12.568	5.182	1.00	0.00
ATOM	463	C	TYR	27	4.663	-12.051	3.908	1.00	0.00
ATOM	464	O	TYR	27	4.099	-11.230	3.186	1.00	0.00



ATOM	455	CB	TYR	27	2.688	-11.824	5.456	1.00	0.00
ATOM	456	CG	TYR	27	1.460	-12.486	4.865	1.00	0.00
ATOM	457	CD1	TYR	27	1.316	-13.868	4.878	1.00	0.00
ATOM	458	CD2	TYR	27	0.441	-11.726	4.304	1.00	0.00
ATOM	459	CE1	TYR	27	0.191	-14.473	4.348	1.00	0.00
ATOM	460	CE2	TYR	27	-0.688	-12.323	3.775	1.00	0.00
ATOM	461	CZ	TYR	27	-0.808	-13.697	3.799	1.00	0.00
ATOM	462	OH	TYR	27	-1.932	-14.295	3.274	1.00	0.00
ATOM	465	H	TYR	27	4.848	-11.597	6.855	1.00	0.00
ATOM	466	HA	TYR	27	3.791	-13.621	5.065	1.00	0.00
ATOM	467	1HB	TYR	27	2.757	-10.825	5.053	1.00	0.00
ATOM	468	2HB	TYR	27	2.541	-11.759	6.525	1.00	0.00
ATOM	469	HD1	TYR	27	0.537	-10.650	4.287	1.00	0.00
ATOM	470	HD2	TYR	27	2.098	-14.474	5.311	1.00	0.00
ATOM	471	HE1	TYR	27	-1.468	-11.716	3.344	1.00	0.00
ATOM	472	HE2	TYR	27	0.098	-15.550	4.366	1.00	0.00
ATOM	473	HH	TYR	27	-2.341	-13.703	2.634	1.00	0.00
ATOM	474	N	VAL	28	5.869	-12.544	3.642	1.00	0.00
ATOM	475	CA	VAL	28	6.625	-12.143	2.461	1.00	0.00
ATOM	479	C	VAL	28	6.110	-12.884	1.234	1.00	0.00
ATOM	480	O	VAL	28	6.083	-12.343	0.128	1.00	0.00
ATOM	476	CB	VAL	28	8.136	-12.417	2.624	1.00	0.00
ATOM	477	CG1	VAL	28	8.942	-11.602	1.624	1.00	0.00
ATOM	478	CG2	VAL	28	8.589	-12.120	4.048	1.00	0.00
ATOM	481	H	VAL	28	6.261	-13.199	4.263	1.00	0.00
ATOM	482	HA	VAL	28	6.481	-11.085	2.315	1.00	0.00
ATOM	483	HB	VAL	28	8.313	-13.464	2.426	1.00	0.00
ATOM	484	1HG1	VAL	28	9.997	-11.740	1.813	1.00	0.00
ATOM	485	2HG1	VAL	28	8.691	-10.557	1.725	1.00	0.00
ATOM	486	3HG1	VAL	28	8.712	-11.933	0.622	1.00	0.00
ATOM	487	1HG2	VAL	28	9.540	-12.600	4.231	1.00	0.00
ATOM	488	2HG2	VAL	28	7.855	-12.496	4.745	1.00	0.00
ATOM	489	3HG2	VAL	28	8.693	-11.053	4.177	1.00	0.00
ATOM	490	N	CYS	29	5.687	-14.121	1.449	1.00	0.00
ATOM	491	CA	CYS	29	5.149	-14.951	0.382	1.00	0.00
ATOM	494	C	CYS	29	3.853	-14.339	-0.136	1.00	0.00
ATOM	495	O	CYS	29	3.592	-14.305	-1.338	1.00	0.00
ATOM	492	CB	CYS	29	4.897	-16.361	0.908	1.00	0.00
ATOM	493	SG	CYS	29	5.347	-16.569	2.649	1.00	0.00
ATOM	496	H	CYS	29	5.726	-14.486	2.359	1.00	0.00
ATOM	497	HA	CYS	29	5.872	-14.988	-0.420	1.00	0.00
ATOM	498	1HB	CYS	29	5.476	-17.062	0.331	1.00	0.00
ATOM	499	2HB	CYS	29	3.848	-16.596	0.808	1.00	0.00
ATOM	500	HG	CYS	29	6.388	-17.396	2.709	1.00	0.00
ATOM	501	N	GLY	30	3.061	-13.826	0.794	1.00	0.00
ATOM	502	CA	GLY	30	1.809	-13.188	0.448	1.00	0.00
ATOM	503	C	GLY	30	1.974	-11.694	0.295	1.00	0.00
ATOM	504	O	GLY	30	1.312	-10.908	0.976	1.00	0.00
ATOM	505	H	GLY	30	3.341	-13.868	1.731	1.00	0.00
ATOM	506	1HA	GLY	30	1.089	-13.381	1.221	1.00	0.00
ATOM	507	2HA	GLY	30	1.449	-13.601	-0.483	1.00	0.00
ATOM	508	N	ALA	31	2.867	-11.308	-0.600	1.00	0.00
ATOM	509	CA	ALA	31	3.141	-9.906	-0.864	1.00	0.00
ATOM	511	C	ALA	31	1.913	-9.230	-1.451	1.00	0.00
ATOM	512	O	ALA	31	1.302	-9.749	-2.385	1.00	0.00
ATOM	510	CB	ALA	31	4.323	-9.772	-1.809	1.00	0.00
ATOM	513	H	ALA	31	3.357	-11.993	-1.099	1.00	0.00
ATOM	514	HA	ALA	31	3.396	-9.429	0.072	1.00	0.00
ATOM	515	1HB	ALA	31	5.040	-10.552	-1.602	1.00	0.00
ATOM	516	2HB	ALA	31	4.788	-8.808	-1.668	1.00	0.00
ATOM	517	3HB	ALA	31	3.979	-9.860	-2.829	1.00	0.00
ATOM	518	N	GLY	32	1.538	-8.084	-0.900	1.00	0.00
ATOM	519	CA	GLY	32	0.367	-7.392	-1.402	1.00	0.00
ATOM	520	C	GLY	32	-0.243	-6.420	-0.403	1.00	0.00
ATOM	521	O	GLY	32	-0.471	-5.264	-0.742	1.00	0.00
ATOM	522	H	GLY	32	2.050	-7.711	-0.147	1.00	0.00
ATOM	523	1HA	GLY	32	-0.378	-8.126	-1.671	1.00	0.00
ATOM	524	2HA	GLY	32	0.644	-6.843	-2.290	1.00	0.00
ATOM	525	N	PRO	33	-0.531	-6.844	0.843	1.00	0.00
ATOM	526	CA	PRO	33	-1.129	-5.953	1.845	1.00	0.00
ATOM	530	C	PRO	33	-0.214	-4.780	2.163	1.00	0.00
ATOM	531	O	PRO	33	-0.638	-3.629	2.194	1.00	0.00
ATOM	527	CB	PRO	33	-1.310	-6.858	3.072	1.00	0.00



ATOM	528	CG	PRO	33	-1.273	-8.246	2.532	1.00	0.00
ATOM	529	CD	PRO	33	-0.314	-8.196	1.382	1.00	0.00
ATOM	532	HA	PRO	33	-2.090	-5.581	1.521	1.00	0.00
ATOM	533	1HB	PRO	33	-2.254	-6.642	3.542	1.00	0.00
ATOM	534	2HB	PRO	33	-0.506	-6.682	3.772	1.00	0.00
ATOM	535	1HG	PRO	33	-2.255	-8.538	2.193	1.00	0.00
ATOM	536	2HG	PRO	33	-0.917	-8.928	3.292	1.00	0.00
ATOM	537	1HD	PRO	33	-0.551	-8.948	0.650	1.00	0.00
ATOM	538	2HD	PRO	33	0.700	-8.314	1.731	1.00	0.00
ATOM	539	N	GLY	34	1.053	-5.093	2.377	1.00	0.00
ATOM	540	CA	GLY	34	2.033	-4.074	2.674	1.00	0.00
ATOM	541	C	GLY	34	2.862	-3.710	1.465	1.00	0.00
ATOM	542	O	GLY	34	4.067	-3.484	1.578	1.00	0.00
ATOM	543	H	GLY	34	1.323	-6.029	2.327	1.00	0.00
ATOM	544	1HA	GLY	34	2.691	-4.441	3.448	1.00	0.00
ATOM	545	2HA	GLY	34	1.529	-3.191	3.035	1.00	0.00
ATOM	546	N	GLU	35	2.230	-3.669	0.299	1.00	0.00
ATOM	547	CA	GLU	35	2.937	-3.331	-0.927	1.00	0.00
ATOM	553	C	GLU	35	2.913	-1.819	-1.143	1.00	0.00
ATOM	554	O	GLU	35	3.776	-1.259	-1.821	1.00	0.00
ATOM	548	CB	GLU	35	2.337	-4.070	-2.131	1.00	0.00
ATOM	549	CG	GLU	35	1.074	-3.435	-2.699	1.00	0.00
ATOM	550	CD	GLU	35	0.400	-4.309	-3.740	1.00	0.00
ATOM	551	OE1	GLU	35	1.038	-5.274	-4.212	1.00	0.00
ATOM	552	OE2	GLU	35	-0.763	-4.030	-4.093	1.00	0.00
ATOM	555	H	GLU	35	1.270	-3.872	0.263	1.00	0.00
ATOM	556	HA	GLU	35	3.963	-3.647	-0.801	1.00	0.00
ATOM	557	1HB	GLU	35	2.099	-5.081	-1.832	1.00	0.00
ATOM	558	2HB	GLU	35	3.075	-4.105	-2.919	1.00	0.00
ATOM	559	1HG	GLU	35	1.335	-2.491	-3.155	1.00	0.00
ATOM	560	2HG	GLU	35	0.378	-3.263	-1.891	1.00	0.00
ATOM	561	N	GLY	36	1.930	-1.164	-0.538	1.00	0.00
ATOM	562	CA	GLY	36	1.813	0.275	-0.650	1.00	0.00
ATOM	563	C	GLY	36	2.389	0.972	0.563	1.00	0.00
ATOM	564	O	GLY	36	2.266	0.470	1.676	1.00	0.00
ATOM	565	H	GLY	36	1.285	-1.661	0.006	1.00	0.00
ATOM	566	1HA	GLY	36	0.770	0.538	-0.746	1.00	0.00
ATOM	567	2HA	GLY	36	2.344	0.603	-1.531	1.00	0.00
ATOM	568	N	PRO	37	3.056	2.117	0.377	1.00	0.00
ATOM	569	CA	PRO	37	3.675	2.853	1.467	1.00	0.00
ATOM	573	C	PRO	37	2.779	3.945	2.060	1.00	0.00
ATOM	574	O	PRO	37	1.545	3.894	1.973	1.00	0.00
ATOM	570	CB	PRO	37	4.883	3.472	0.769	1.00	0.00
ATOM	571	CG	PRO	37	4.425	3.733	-0.633	1.00	0.00
ATOM	572	CD	PRO	37	3.292	2.773	-0.918	1.00	0.00
ATOM	575	HA	PRO	37	4.011	2.194	2.253	1.00	0.00
ATOM	576	1HB	PRO	37	5.708	2.777	0.791	1.00	0.00
ATOM	577	2HB	PRO	37	5.160	4.387	1.271	1.00	0.00
ATOM	578	1HG	PRO	37	5.241	3.559	-1.319	1.00	0.00
ATOM	579	2HG	PRO	37	4.079	4.752	-0.718	1.00	0.00
ATOM	580	1HD	PRO	37	3.587	2.052	-1.666	1.00	0.00
ATOM	581	2HD	PRO	37	2.413	3.312	-1.240	1.00	0.00
ATOM	582	N	ALA	38	3.421	4.934	2.665	1.00	0.00
ATOM	583	CA	ALA	38	2.733	6.051	3.286	1.00	0.00
ATOM	585	C	ALA	38	2.288	7.077	2.246	1.00	0.00
ATOM	586	O	ALA	38	2.968	8.073	2.011	1.00	0.00
ATOM	584	CB	ALA	38	3.648	6.691	4.314	1.00	0.00
ATOM	587	H	ALA	38	4.402	4.910	2.692	1.00	0.00
ATOM	588	HA	ALA	38	1.860	5.671	3.801	1.00	0.00
ATOM	589	1HB	ALA	38	3.347	6.384	5.305	1.00	0.00
ATOM	590	2HB	ALA	38	3.582	7.766	4.234	1.00	0.00
ATOM	591	3HB	ALA	38	4.666	6.378	4.136	1.00	0.00
ATOM	592	N	ALA	39	1.144	6.827	1.622	1.00	0.00
ATOM	593	CA	ALA	39	0.623	7.733	0.605	1.00	0.00
ATOM	595	C	ALA	39	-0.856	8.025	0.836	1.00	0.00
ATOM	596	O	ALA	39	-1.617	8.222	-0.108	1.00	0.00
ATOM	594	CB	ALA	39	0.842	7.145	-0.782	1.00	0.00
ATOM	597	H	ALA	39	0.641	6.013	1.844	1.00	0.00
ATOM	598	HA	ALA	39	1.175	8.659	0.669	1.00	0.00
ATOM	599	1HB	ALA	39	0.090	6.395	-0.978	1.00	0.00
ATOM	600	2HB	ALA	39	1.821	6.695	-0.830	1.00	0.00
ATOM	601	3HB	ALA	39	0.770	7.930	-1.521	1.00	0.00
ATOM	602	N	ASP	40	-1.253	8.062	2.102	1.00	0.00



ATOM	603	CA	ASP	40	-2.636	8.338	2.464	1.00	0.00
ATOM	608	C	ASP	40	-2.685	9.245	3.685	1.00	0.00
ATOM	609	O	ASP	40	-1.681	9.399	4.383	1.00	0.00
ATOM	604	CB	ASP	40	-3.389	7.043	2.763	1.00	0.00
ATOM	605	CG	ASP	40	-4.005	6.431	1.525	1.00	0.00
ATOM	606	OD1	ASP	40	-4.650	7.174	0.753	1.00	0.00
ATOM	607	OD2	ASP	40	-3.846	5.211	1.325	1.00	0.00
ATOM	610	H	ASP	40	-0.602	7.912	2.807	1.00	0.00
ATOM	611	HA	ASP	40	-3.106	8.839	1.632	1.00	0.00
ATOM	612	1HB	ASP	40	-4.183	7.265	3.463	1.00	0.00
ATOM	613	2HB	ASP	40	-2.711	6.329	3.205	1.00	0.00
ATOM	614	N	PRO	41	-3.856	9.830	3.975	1.00	0.00
ATOM	615	CA	PRO	41	-4.048	10.712	5.122	1.00	0.00
ATOM	619	C	PRO	41	-4.278	9.927	6.407	1.00	0.00
ATOM	620	O	PRO	41	-5.215	10.190	7.161	1.00	0.00
ATOM	616	CB	PRO	41	-5.288	11.518	4.739	1.00	0.00
ATOM	617	CG	PRO	41	-6.067	10.640	3.814	1.00	0.00
ATOM	618	CD	PRO	41	-5.100	9.650	3.208	1.00	0.00
ATOM	621	HA	PRO	41	-3.207	11.378	5.254	1.00	0.00
ATOM	622	1HB	PRO	41	-4.987	12.432	4.249	1.00	0.00
ATOM	623	2HB	PRO	41	-5.854	11.752	5.628	1.00	0.00
ATOM	624	1HG	PRO	41	-6.518	11.240	3.038	1.00	0.00
ATOM	625	2HG	PRO	41	-6.830	10.116	4.369	1.00	0.00
ATOM	626	1HD	PRO	41	-4.935	9.861	2.166	1.00	0.00
ATOM	627	2HD	PRO	41	-5.472	8.645	3.328	1.00	0.00
ATOM	628	N	LEU	42	-3.394	8.960	6.631	1.00	0.00
ATOM	629	CA	LEU	42	-3.421	8.091	7.804	1.00	0.00
ATOM	634	C	LEU	42	-2.257	7.118	7.721	1.00	0.00
ATOM	635	O	LEU	42	-1.674	6.735	8.731	1.00	0.00
ATOM	630	CB	LEU	42	-4.740	7.308	7.924	1.00	0.00
ATOM	631	CG	LEU	42	-5.520	7.089	6.620	1.00	0.00
ATOM	632	CD1	LEU	42	-5.294	5.688	6.082	1.00	0.00
ATOM	633	CD2	LEU	42	-7.005	7.340	6.843	1.00	0.00
ATOM	636	H	LEU	42	-2.678	8.836	5.975	1.00	0.00
ATOM	637	HA	LEU	42	-3.289	8.712	8.679	1.00	0.00
ATOM	638	1HB	LEU	42	-5.382	7.836	8.614	1.00	0.00
ATOM	639	2HB	LEU	42	-4.513	6.340	8.346	1.00	0.00
ATOM	640	HG	LEU	42	-5.169	7.792	5.878	1.00	0.00
ATOM	641	1HD1	LEU	42	-6.189	5.346	5.584	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.060	5.021	6.899	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.474	5.699	5.380	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.188	8.405	6.879	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.311	6.889	7.774	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.568	6.906	6.030	1.00	0.00
ATOM	647	N	HIS	43	-1.921	6.735	6.494	1.00	0.00
ATOM	648	CA	HIS	43	-0.817	5.811	6.244	1.00	0.00
ATOM	655	C	HIS	43	0.491	6.394	6.759	1.00	0.00
ATOM	656	O	HIS	43	1.171	5.793	7.587	1.00	0.00
ATOM	649	CB	HIS	43	-0.670	5.555	4.748	1.00	0.00
ATOM	650	CG	HIS	43	-1.454	4.391	4.211	1.00	0.00
ATOM	651	ND1	HIS	43	-1.023	3.624	3.149	1.00	0.00
ATOM	652	CD2	HIS	43	-2.673	3.905	4.551	1.00	0.00
ATOM	653	CE1	HIS	43	-1.944	2.728	2.852	1.00	0.00
ATOM	654	NE2	HIS	43	-2.958	2.871	3.690	1.00	0.00
ATOM	657	H	HIS	43	-2.429	7.086	5.735	1.00	0.00
ATOM	658	HA	HIS	43	-1.020	4.884	6.756	1.00	0.00
ATOM	659	1HB	HIS	43	0.375	5.387	4.537	1.00	0.00
ATOM	660	2HB	HIS	43	-0.994	6.437	4.214	1.00	0.00
ATOM	661	HD1	HIS	43	-0.150	3.698	2.701	1.00	0.00
ATOM	662	HD2	HIS	43	-3.307	4.263	5.355	1.00	0.00
ATOM	663	HE1	HIS	43	-1.878	1.997	2.058	1.00	0.00
ATOM	664	HE2	HIS	43	-3.650	2.193	3.841	1.00	0.00
ATOM	665	N	GLN	44	0.830	7.578	6.250	1.00	0.00
ATOM	666	CA	GLN	44	2.056	8.274	6.637	1.00	0.00
ATOM	672	C	GLN	44	2.071	8.547	8.130	1.00	0.00
ATOM	673	O	GLN	44	3.129	8.658	8.744	1.00	0.00
ATOM	667	CB	GLN	44	2.193	9.597	5.869	1.00	0.00
ATOM	668	CG	GLN	44	1.484	9.599	4.522	1.00	0.00
ATOM	669	CD	GLN	44	1.625	10.913	3.776	1.00	0.00
ATOM	670	OE1	GLN	44	1.175	11.957	4.245	1.00	0.00
ATOM	671	NE2	GLN	44	2.245	10.864	2.606	1.00	0.00
ATOM	674	H	GLN	44	0.241	7.994	5.591	1.00	0.00
ATOM	675	HA	GLN	44	2.893	7.636	6.392	1.00	0.00



ATOM	676	1HB	GLN	44	3.242	9.793	5.699	1.00	0.00
ATOM	677	2HB	GLN	44	1.780	10.393	6.470	1.00	0.00
ATOM	678	1HG	GLN	44	0.434	9.406	4.685	1.00	0.00
ATOM	679	2HG	GLN	44	1.900	8.812	3.911	1.00	0.00
ATOM	680	1HE2	GLN	44	2.577	9.993	2.289	1.00	0.00
ATOM	681	2HE2	GLN	44	2.344	11.700	2.097	1.00	0.00
ATOM	682	N	ALA	45	0.885	8.636	8.703	1.00	0.00
ATOM	683	CA	ALA	45	0.747	8.891	10.124	1.00	0.00
ATOM	685	C	ALA	45	1.075	7.649	10.940	1.00	0.00
ATOM	686	O	ALA	45	1.891	7.696	11.862	1.00	0.00
ATOM	684	CB	ALA	45	-0.660	9.371	10.432	1.00	0.00
ATOM	687	H	ALA	45	0.079	8.518	8.153	1.00	0.00
ATOM	688	HA	ALA	45	1.437	9.679	10.390	1.00	0.00
ATOM	689	1HB	ALA	45	-1.297	9.189	9.579	1.00	0.00
ATOM	690	2HB	ALA	45	-0.640	10.428	10.649	1.00	0.00
ATOM	691	3HB	ALA	45	-1.042	8.835	11.288	1.00	0.00
ATOM	692	N	MET	46	0.430	6.538	10.606	1.00	0.00
ATOM	693	CA	MET	46	0.649	5.293	11.326	1.00	0.00
ATOM	698	C	MET	46	2.060	4.759	11.120	1.00	0.00
ATOM	699	O	MET	46	2.666	4.222	12.046	1.00	0.00
ATOM	694	CB	MET	46	-0.367	4.241	10.892	1.00	0.00
ATOM	695	CG	MET	46	-0.731	3.275	12.002	1.00	0.00
ATOM	696	SD	MET	46	-2.306	2.464	11.720	1.00	0.00
ATOM	697	CE	MET	46	-3.389	3.606	12.557	1.00	0.00
ATOM	700	H	MET	46	-0.221	6.557	9.861	1.00	0.00
ATOM	701	HA	MET	46	0.511	5.496	12.377	1.00	0.00
ATOM	702	1HB	MET	46	0.044	3.675	10.071	1.00	0.00
ATOM	703	2HB	MET	46	-1.269	4.738	10.563	1.00	0.00
ATOM	704	1HG	MET	46	-0.787	3.823	12.932	1.00	0.00
ATOM	705	2HG	MET	46	0.034	2.527	12.075	1.00	0.00
ATOM	706	1HE	MET	46	-3.121	4.618	12.289	1.00	0.00
ATOM	707	2HE	MET	46	-3.291	3.478	13.625	1.00	0.00
ATOM	708	3HE	MET	46	-4.410	3.416	12.263	1.00	0.00
ATOM	709	N	ARG	47	2.572	4.896	9.903	1.00	0.00
ATOM	710	CA	ARG	47	3.907	4.408	9.576	1.00	0.00
ATOM	718	C	ARG	47	4.984	5.087	10.420	1.00	0.00
ATOM	719	O	ARG	47	5.943	4.438	10.835	1.00	0.00
ATOM	711	CB	ARG	47	4.207	4.615	8.087	1.00	0.00
ATOM	712	CG	ARG	47	4.530	3.326	7.339	1.00	0.00
ATOM	713	CD	ARG	47	5.516	2.451	8.103	1.00	0.00
ATOM	714	NE	ARG	47	6.908	2.829	7.846	1.00	0.00
ATOM	715	CZ	ARG	47	7.901	2.690	8.732	1.00	0.00
ATOM	716	NH1	ARG	47	7.664	2.203	9.940	1.00	0.00
ATOM	717	NH2	ARG	47	9.139	3.039	8.415	1.00	0.00
ATOM	720	H	ARG	47	2.031	5.323	9.201	1.00	0.00
ATOM	721	HA	ARG	47	3.926	3.351	9.786	1.00	0.00
ATOM	722	1HB	ARG	47	5.052	5.282	7.992	1.00	0.00
ATOM	723	2HB	ARG	47	3.347	5.070	7.619	1.00	0.00
ATOM	724	1HG	ARG	47	4.958	3.578	6.379	1.00	0.00
ATOM	725	2HG	ARG	47	3.616	2.772	7.191	1.00	0.00
ATOM	726	1HD	ARG	47	5.371	1.423	7.802	1.00	0.00
ATOM	727	2HD	ARG	47	5.318	2.546	9.161	1.00	0.00
ATOM	728	HE	ARG	47	7.115	3.208	6.956	1.00	0.00
ATOM	729	1HH1	ARG	47	6.741	1.932	10.205	1.00	0.00
ATOM	730	2HH1	ARG	47	8.425	2.113	10.599	1.00	0.00
ATOM	731	1HH2	ARG	47	9.350	3.406	7.500	1.00	0.00
ATOM	732	2HH2	ARG	47	9.875	2.944	9.100	1.00	0.00
ATOM	733	N	ALA	48	4.831	6.379	10.680	1.00	0.00
ATOM	734	CA	ALA	48	5.820	7.099	11.475	1.00	0.00
ATOM	736	C	ALA	48	5.626	6.809	12.948	1.00	0.00
ATOM	737	O	ALA	48	6.593	6.581	13.675	1.00	0.00
ATOM	735	CB	ALA	48	5.748	8.593	11.208	1.00	0.00
ATOM	738	H	ALA	48	4.038	6.857	10.343	1.00	0.00
ATOM	739	HA	ALA	48	6.802	6.747	11.182	1.00	0.00
ATOM	740	1HB	ALA	48	5.031	8.788	10.425	1.00	0.00
ATOM	741	2HB	ALA	48	6.721	8.950	10.903	1.00	0.00
ATOM	742	3HB	ALA	48	5.445	9.105	12.110	1.00	0.00
ATOM	743	N	ALA	49	4.370	6.794	13.377	1.00	0.00
ATOM	744	CA	ALA	49	4.046	6.506	14.761	1.00	0.00
ATOM	746	C	ALA	49	4.590	5.138	15.130	1.00	0.00
ATOM	747	O	ALA	49	5.376	5.004	16.070	1.00	0.00
ATOM	745	CB	ALA	49	2.545	6.569	14.975	1.00	0.00
ATOM	748	H	ALA	49	3.641	6.969	12.740	1.00	0.00



ATOM	749	HA	ALA	49	4.515	7.255	15.384	1.00	0.00
ATOM	750	1HB	ALA	49	2.332	6.599	16.034	1.00	0.00
ATOM	751	2HB	ALA	49	2.082	5.694	14.541	1.00	0.00
ATOM	752	3HB	ALA	49	2.150	7.456	14.503	1.00	0.00
ATOM	753	N	GLY	50	4.169	4.132	14.368	1.00	0.00
ATOM	754	CA	GLY	50	4.614	2.771	14.593	1.00	0.00
ATOM	755	C	GLY	50	6.123	2.658	14.685	1.00	0.00
ATOM	756	O	GLY	50	6.629	2.044	15.608	1.00	0.00
ATOM	757	H	GLY	50	3.539	4.318	13.637	1.00	0.00
ATOM	758	1HA	GLY	50	4.264	2.150	13.783	1.00	0.00
ATOM	759	2HA	GLY	50	4.183	2.414	15.517	1.00	0.00
ATOM	760	N	ASP	51	6.834	3.264	13.738	1.00	0.00
ATOM	761	CA	ASP	51	8.298	3.239	13.725	1.00	0.00
ATOM	766	C	ASP	51	8.868	3.849	15.007	1.00	0.00
ATOM	767	O	ASP	51	9.744	3.269	15.648	1.00	0.00
ATOM	762	CB	ASP	51	8.821	3.999	12.499	1.00	0.00
ATOM	763	CG	ASP	51	10.162	3.477	12.010	1.00	0.00
ATOM	764	OD1	ASP	51	11.198	3.791	12.630	1.00	0.00
ATOM	765	OD2	ASP	51	10.180	2.750	10.988	1.00	0.00
ATOM	768	H	ASP	51	6.367	3.748	13.031	1.00	0.00
ATOM	769	HA	ASP	51	8.615	2.208	13.662	1.00	0.00
ATOM	770	1HB	ASP	51	8.926	5.047	12.745	1.00	0.00
ATOM	771	2HB	ASP	51	8.105	3.898	11.695	1.00	0.00
ATOM	772	N	GLU	52	8.350	5.015	15.383	1.00	0.00
ATOM	773	CA	GLU	52	8.788	5.709	16.594	1.00	0.00
ATOM	779	C	GLU	52	8.555	4.839	17.832	1.00	0.00
ATOM	780	O	GLU	52	9.436	4.703	18.685	1.00	0.00
ATOM	774	CB	GLU	52	8.042	7.043	16.721	1.00	0.00
ATOM	775	CG	GLU	52	8.145	7.695	18.092	1.00	0.00
ATOM	776	CD	GLU	52	8.968	8.966	18.071	1.00	0.00
ATOM	777	OE1	GLU	52	8.461	10.001	17.588	1.00	0.00
ATOM	778	OE2	GLU	52	10.121	8.936	18.547	1.00	0.00
ATOM	781	H	GLU	52	7.645	5.420	14.831	1.00	0.00
ATOM	782	HA	GLU	52	9.848	5.902	16.503	1.00	0.00
ATOM	783	1HB	GLU	52	6.996	6.877	16.507	1.00	0.00
ATOM	784	2HB	GLU	52	8.442	7.733	15.993	1.00	0.00
ATOM	785	1HG	GLU	52	8.605	6.996	18.775	1.00	0.00
ATOM	786	2HG	GLU	52	7.152	7.934	18.438	1.00	0.00
ATOM	787	N	PHE	53	7.375	4.238	17.918	1.00	0.00
ATOM	788	CA	PHE	53	7.045	3.376	19.045	1.00	0.00
ATOM	796	C	PHE	53	7.828	2.075	18.969	1.00	0.00
ATOM	797	O	PHE	53	8.232	1.535	19.987	1.00	0.00
ATOM	789	CB	PHE	53	5.551	3.083	19.087	1.00	0.00
ATOM	790	CG	PHE	53	4.914	3.396	20.413	1.00	0.00
ATOM	791	CD1	PHE	53	4.872	4.699	20.888	1.00	0.00
ATOM	792	CD2	PHE	53	4.363	2.388	21.187	1.00	0.00
ATOM	793	CE1	PHE	53	4.289	4.987	22.108	1.00	0.00
ATOM	794	CE2	PHE	53	3.782	2.672	22.408	1.00	0.00
ATOM	795	CZ	PHE	53	3.746	3.972	22.870	1.00	0.00
ATOM	798	H	PHE	53	6.714	4.371	17.202	1.00	0.00
ATOM	799	HA	PHE	53	7.326	3.895	19.951	1.00	0.00
ATOM	800	1HB	PHE	53	5.391	2.035	18.878	1.00	0.00
ATOM	801	2HB	PHE	53	5.055	3.675	18.332	1.00	0.00
ATOM	802	HD1	PHE	53	4.390	1.369	20.828	1.00	0.00
ATOM	803	HD2	PHE	53	5.296	5.494	20.293	1.00	0.00
ATOM	804	HE1	PHE	53	3.356	1.875	23.003	1.00	0.00
ATOM	805	HE2	PHE	53	4.263	6.006	22.468	1.00	0.00
ATOM	806	HZ	PHE	53	3.292	4.196	23.824	1.00	0.00
ATOM	807	N	GLU	54	8.053	1.593	17.755	1.00	0.00
ATOM	808	CA	GLU	54	8.807	0.364	17.534	1.00	0.00
ATOM	814	C	GLU	54	10.241	0.542	18.034	1.00	0.00
ATOM	815	O	GLU	54	10.923	-0.418	18.385	1.00	0.00
ATOM	809	CB	GLU	54	8.772	0.003	16.038	1.00	0.00
ATOM	810	CG	GLU	54	9.466	-1.304	15.682	1.00	0.00
ATOM	811	CD	GLU	54	8.488	-2.375	15.234	1.00	0.00
ATOM	812	OE1	GLU	54	7.766	-2.927	16.090	1.00	0.00
ATOM	813	OE2	GLU	54	8.420	-2.668	14.014	1.00	0.00
ATOM	816	H	GLU	54	7.707	2.083	16.975	1.00	0.00
ATOM	817	HA	GLU	54	8.333	-0.425	18.100	1.00	0.00
ATOM	818	1HB	GLU	54	9.233	0.803	15.471	1.00	0.00
ATOM	819	2HB	GLU	54	7.739	-0.080	15.733	1.00	0.00
ATOM	820	1HG	GLU	54	9.998	-1.663	16.554	1.00	0.00
ATOM	821	2HG	GLU	54	10.168	-1.120	14.881	1.00	0.00



ATOM	822	N	THR	55	10.679	1.795	18.076	1.00	0.00
ATOM	823	CA	THR	55	12.016	2.134	18.541	1.00	0.00
ATOM	827	C	THR	55	12.013	2.525	20.027	1.00	0.00
ATOM	828	O	THR	55	13.054	2.525	20.684	1.00	0.00
ATOM	824	CB	THR	55	12.589	3.292	17.696	1.00	0.00
ATOM	825	OG1	THR	55	12.315	3.057	16.309	1.00	0.00
ATOM	826	CG2	THR	55	14.092	3.439	17.901	1.00	0.00
ATOM	829	H	THR	55	10.078	2.515	17.788	1.00	0.00
ATOM	830	HA	THR	55	12.647	1.269	18.406	1.00	0.00
ATOM	831	HB	THR	55	12.104	4.213	17.994	1.00	0.00
ATOM	832	HG1	THR	55	11.355	3.011	16.172	1.00	0.00
ATOM	833	1HG2	THR	55	14.576	2.494	17.703	1.00	0.00
ATOM	834	2HG2	THR	55	14.288	3.737	18.920	1.00	0.00
ATOM	835	3HG2	THR	55	14.477	4.188	17.225	1.00	0.00
ATOM	836	N	ARG	56	10.842	2.870	20.553	1.00	0.00
ATOM	837	CA	ARG	56	10.724	3.277	21.954	1.00	0.00
ATOM	845	C	ARG	56	10.239	2.127	22.843	1.00	0.00
ATOM	846	O	ARG	56	10.686	1.976	23.983	1.00	0.00
ATOM	838	CB	ARG	56	9.762	4.464	22.079	1.00	0.00
ATOM	839	CG	ARG	56	10.430	5.821	21.907	1.00	0.00
ATOM	840	CD	ARG	56	9.414	6.953	21.958	1.00	0.00
ATOM	841	NE	ARG	56	9.834	8.115	21.177	1.00	0.00
ATOM	842	CZ	ARG	56	9.983	9.344	21.677	1.00	0.00
ATOM	843	NH1	ARG	56	9.796	9.581	22.973	1.00	0.00
ATOM	844	NH2	ARG	56	10.320	10.343	20.876	1.00	0.00
ATOM	847	H	ARG	56	10.042	2.861	19.986	1.00	0.00
ATOM	848	HA	ARG	56	11.702	3.586	22.292	1.00	0.00
ATOM	849	1HB	ARG	56	9.302	4.435	23.055	1.00	0.00
ATOM	850	2HB	ARG	56	8.993	4.367	21.327	1.00	0.00
ATOM	851	1HG	ARG	56	10.937	5.846	20.953	1.00	0.00
ATOM	852	2HG	ARG	56	11.147	5.962	22.701	1.00	0.00
ATOM	853	1HD	ARG	56	9.283	7.257	22.987	1.00	0.00
ATOM	854	2HD	ARG	56	8.474	6.591	21.570	1.00	0.00
ATOM	855	HE	ARG	56	9.999	7.976	20.208	1.00	0.00
ATOM	856	1HH1	ARG	56	9.542	8.840	23.593	1.00	0.00
ATOM	857	2HH1	ARG	56	9.910	10.525	23.333	1.00	0.00
ATOM	858	1HH2	ARG	56	10.460	10.171	19.889	1.00	0.00
ATOM	859	2HH2	ARG	56	10.437	11.271	21.246	1.00	0.00
ATOM	860	N	PHE	57	9.319	1.331	22.325	1.00	0.00
ATOM	861	CA	PHE	57	8.755	0.207	23.047	1.00	0.00
ATOM	869	C	PHE	57	9.626	-1.027	22.874	1.00	0.00
ATOM	870	O	PHE	57	9.631	-1.668	21.826	1.00	0.00
ATOM	862	CB	PHE	57	7.331	-0.077	22.560	1.00	0.00
ATOM	863	CG	PHE	57	6.306	-0.133	23.659	1.00	0.00
ATOM	864	CD1	PHE	57	6.254	0.849	24.637	1.00	0.00
ATOM	865	CD2	PHE	57	5.387	-1.170	23.708	1.00	0.00
ATOM	866	CE1	PHE	57	5.306	0.795	25.644	1.00	0.00
ATOM	867	CE2	PHE	57	4.438	-1.228	24.709	1.00	0.00
ATOM	868	CZ	PHE	57	4.396	-0.246	25.679	1.00	0.00
ATOM	871	H	PHE	57	9.006	1.501	21.417	1.00	0.00
ATOM	872	HA	PHE	57	8.724	0.467	24.094	1.00	0.00
ATOM	873	1HB	PHE	57	7.319	-1.026	22.046	1.00	0.00
ATOM	874	2HB	PHE	57	7.034	0.701	21.872	1.00	0.00
ATOM	875	HD1	PHE	57	5.418	-1.939	22.952	1.00	0.00
ATOM	876	HD2	PHE	57	6.965	1.662	24.611	1.00	0.00
ATOM	877	HE1	PHE	57	3.728	-2.042	24.735	1.00	0.00
ATOM	878	HE2	PHE	57	5.276	1.565	26.400	1.00	0.00
ATOM	879	HZ	PHE	57	3.652	-0.290	26.463	1.00	0.00
ATOM	880	N	ARG	58	10.372	-1.337	23.910	1.00	0.00
ATOM	881	CA	ARG	58	11.269	-2.485	23.896	1.00	0.00
ATOM	889	C	ARG	58	10.554	-3.761	24.346	1.00	0.00
ATOM	890	O	ARG	58	11.156	-4.832	24.397	1.00	0.00
ATOM	882	CB	ARG	58	12.474	-2.220	24.797	1.00	0.00
ATOM	883	CG	ARG	58	13.678	-1.667	24.056	1.00	0.00
ATOM	884	CD	ARG	58	14.752	-1.187	25.020	1.00	0.00
ATOM	885	NE	ARG	58	15.174	0.184	24.731	1.00	0.00
ATOM	886	CZ	ARG	58	15.183	1.172	25.627	1.00	0.00
ATOM	887	NH1	ARG	58	14.802	0.946	26.880	1.00	0.00
ATOM	888	NH2	ARG	58	15.580	2.383	25.263	1.00	0.00
ATOM	891	H	ARG	58	10.327	-0.769	24.703	1.00	0.00
ATOM	892	HA	ARG	58	11.615	-2.622	22.882	1.00	0.00
ATOM	893	1HB	ARG	58	12.765	-3.145	25.273	1.00	0.00
ATOM	894	2HB	ARG	58	12.190	-1.509	25.559	1.00	0.00



ATOM	895	1HG	ARG	58	13.362	-0.836	23.441	1.00	0.00
ATOM	896	2HG	ARG	58	14.092	-2.443	23.429	1.00	0.00
ATOM	897	1HD	ARG	58	15.607	-1.841	24.942	1.00	0.00
ATOM	898	2HD	ARG	58	14.359	-1.227	26.024	1.00	0.00
ATOM	899	HE	ARG	58	15.470	0.382	23.808	1.00	0.00
ATOM	900	1HH1	ARG	58	14.507	0.033	27.159	1.00	0.00
ATOM	901	2HH1	ARG	58	14.806	1.698	27.554	1.00	0.00
ATOM	902	1HH2	ARG	58	15.871	2.552	24.312	1.00	0.00
ATOM	903	2HH2	ARG	58	15.593	3.134	25.927	1.00	0.00
ATOM	904	N	ARG	59	9.274	-3.645	24.675	1.00	0.00
ATOM	905	CA	ARG	59	8.495	-4.793	25.125	1.00	0.00
ATOM	913	C	ARG	59	7.234	-4.968	24.283	1.00	0.00
ATOM	914	O	ARG	59	6.122	-4.944	24.802	1.00	0.00
ATOM	906	CB	ARG	59	8.124	-4.631	26.602	1.00	0.00
ATOM	907	CG	ARG	59	8.090	-5.943	27.368	1.00	0.00
ATOM	908	CD	ARG	59	7.335	-5.799	28.679	1.00	0.00
ATOM	909	NE	ARG	59	8.208	-5.360	29.769	1.00	0.00
ATOM	910	CZ	ARG	59	7.874	-5.406	31.058	1.00	0.00
ATOM	911	NH1	ARG	59	6.681	-5.864	31.425	1.00	0.00
ATOM	912	NH2	ARG	59	8.734	-4.990	31.978	1.00	0.00
ATOM	915	H	ARG	59	8.842	-2.768	24.617	1.00	0.00
ATOM	916	HA	ARG	59	9.112	-5.672	25.014	1.00	0.00
ATOM	917	1HB	ARG	59	7.148	-4.174	26.669	1.00	0.00
ATOM	918	2HB	ARG	59	8.848	-3.983	27.074	1.00	0.00
ATOM	919	1HG	ARG	59	9.103	-6.254	27.578	1.00	0.00
ATOM	920	2HG	ARG	59	7.599	-6.690	26.762	1.00	0.00
ATOM	921	1HD	ARG	59	6.903	-6.754	28.939	1.00	0.00
ATOM	922	2HD	ARG	59	6.548	-5.073	28.548	1.00	0.00
ATOM	923	HE	ARG	59	9.094	-5.014	29.523	1.00	0.00
ATOM	924	1HH1	ARG	59	6.029	-6.177	30.732	1.00	0.00
ATOM	925	2HH1	ARG	59	6.426	-5.900	32.401	1.00	0.00
ATOM	926	1HH2	ARG	59	9.640	-4.640	31.705	1.00	0.00
ATOM	927	2HH2	ARG	59	8.491	-5.024	32.957	1.00	0.00
ATOM	928	N	THR	60	7.414	-5.127	22.981	1.00	0.00
ATOM	929	CA	THR	60	6.283	-5.288	22.076	1.00	0.00
ATOM	933	C	THR	60	6.340	-6.617	21.321	1.00	0.00
ATOM	934	O	THR	60	5.478	-6.907	20.496	1.00	0.00
ATOM	930	CB	THR	60	6.231	-4.134	21.062	1.00	0.00
ATOM	931	OG1	THR	60	7.176	-3.124	21.438	1.00	0.00
ATOM	932	CG2	THR	60	4.834	-3.534	21.003	1.00	0.00
ATOM	935	H	THR	60	8.322	-5.117	22.618	1.00	0.00
ATOM	936	HA	THR	60	5.379	-5.259	22.665	1.00	0.00
ATOM	937	HB	THR	60	6.488	-4.516	20.084	1.00	0.00
ATOM	938	HG1	THR	60	7.656	-2.820	20.659	1.00	0.00
ATOM	939	1HG2	THR	60	4.619	-3.224	19.991	1.00	0.00
ATOM	940	2HG2	THR	60	4.782	-2.679	21.660	1.00	0.00
ATOM	941	3HG2	THR	60	4.111	-4.273	21.317	1.00	0.00
ATOM	942	N	PHE	61	7.366	-7.417	21.591	1.00	0.00
ATOM	943	CA	PHE	61	7.518	-8.698	20.908	1.00	0.00
ATOM	951	C	PHE	61	7.479	-9.868	21.887	1.00	0.00
ATOM	952	O	PHE	61	7.075	-10.973	21.533	1.00	0.00
ATOM	944	CB	PHE	61	8.822	-8.719	20.109	1.00	0.00
ATOM	945	CG	PHE	61	8.668	-8.231	18.696	1.00	0.00
ATOM	946	CD1	PHE	61	8.571	-6.875	18.424	1.00	0.00
ATOM	947	CD2	PHE	61	8.616	-9.126	17.640	1.00	0.00
ATOM	948	CE1	PHE	61	8.427	-6.422	17.127	1.00	0.00
ATOM	949	CE2	PHE	61	8.472	-8.679	16.340	1.00	0.00
ATOM	950	CZ	PHE	61	8.377	-7.325	16.083	1.00	0.00
ATOM	953	H	PHE	61	8.035	-7.136	22.246	1.00	0.00
ATOM	954	HA	PHE	61	6.690	-8.800	20.220	1.00	0.00
ATOM	955	1HB	PHE	61	9.196	-9.732	20.072	1.00	0.00
ATOM	956	2HB	PHE	61	9.549	-8.090	20.601	1.00	0.00
ATOM	957	HD1	PHE	61	8.611	-6.168	19.239	1.00	0.00
ATOM	958	HD2	PHE	61	8.690	-10.185	17.840	1.00	0.00
ATOM	959	HE1	PHE	61	8.353	-5.362	16.929	1.00	0.00
ATOM	960	HE2	PHE	61	8.434	-9.388	15.526	1.00	0.00
ATOM	961	HZ	PHE	61	8.265	-6.974	15.068	1.00	0.00
ATOM	962	N	SER	62	7.902	-9.623	23.116	1.00	0.00
ATOM	963	CA	SER	62	7.923	-10.657	24.142	1.00	0.00
ATOM	966	C	SER	62	6.513	-11.130	24.495	1.00	0.00
ATOM	967	O	SER	62	6.309	-12.295	24.842	1.00	0.00
ATOM	964	CB	SER	62	8.638	-10.113	25.375	1.00	0.00
ATOM	965	OG	SER	62	9.357	-8.930	25.046	1.00	0.00



ATOM	968	H	SER	62	8.216	-8.725	23.347	1.00	0.00
ATOM	969	HA	SER	62	8.479	-11.498	23.757	1.00	0.00
ATOM	970	1HB	SER	62	9.333	-10.852	25.746	1.00	0.00
ATOM	971	2HB	SER	62	7.912	-9.879	26.140	1.00	0.00
ATOM	972	HG	SER	62	10.147	-9.163	24.531	1.00	0.00
ATOM	973	N	ASP	63	5.546	-10.227	24.398	1.00	0.00
ATOM	974	CA	ASP	63	4.156	-10.555	24.708	1.00	0.00
ATOM	979	C	ASP	63	3.549	-11.426	23.625	1.00	0.00
ATOM	980	O	ASP	63	2.560	-12.123	23.858	1.00	0.00
ATOM	975	CB	ASP	63	3.328	-9.277	24.885	1.00	0.00
ATOM	976	CG	ASP	63	3.455	-8.681	26.276	1.00	0.00
ATOM	977	OD1	ASP	63	4.592	-8.610	26.791	1.00	0.00
ATOM	978	OD2	ASP	63	2.417	-8.290	26.856	1.00	0.00
ATOM	981	H	ASP	63	5.769	-9.316	24.116	1.00	0.00
ATOM	982	HA	ASP	63	4.147	-11.116	25.629	1.00	0.00
ATOM	983	1HB	ASP	63	2.288	-9.504	24.704	1.00	0.00
ATOM	984	2HB	ASP	63	3.660	-8.540	24.169	1.00	0.00
ATOM	985	N	LEU	64	4.156	-11.407	22.449	1.00	0.00
ATOM	986	CA	LEU	64	3.685	-12.221	21.336	1.00	0.00
ATOM	991	C	LEU	64	3.997	-13.677	21.630	1.00	0.00
ATOM	992	O	LEU	64	3.185	-14.572	21.389	1.00	0.00
ATOM	987	CB	LEU	64	4.360	-11.802	20.026	1.00	0.00
ATOM	988	CG	LEU	64	3.771	-10.584	19.301	1.00	0.00
ATOM	989	CD1	LEU	64	2.903	-9.735	20.222	1.00	0.00
ATOM	990	CD2	LEU	64	4.893	-9.746	18.717	1.00	0.00
ATOM	993	H	LEU	64	4.951	-10.847	22.331	1.00	0.00
ATOM	994	HA	LEU	64	2.617	-12.094	21.249	1.00	0.00
ATOM	995	1HB	LEU	64	4.320	-12.643	19.348	1.00	0.00
ATOM	996	2HB	LEU	64	5.397	-11.592	20.238	1.00	0.00
ATOM	997	HG	LEU	64	3.153	-10.926	18.484	1.00	0.00
ATOM	998	1HD1	LEU	64	3.143	-9.958	21.252	1.00	0.00
ATOM	999	2HD1	LEU	64	1.861	-9.956	20.040	1.00	0.00
ATOM	1000	3HD1	LEU	64	3.088	-8.690	20.027	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.250	-9.054	19.465	1.00	0.00
ATOM	1002	2HD2	LEU	64	4.526	-9.198	17.863	1.00	0.00
ATOM	1003	3HD2	LEU	64	5.703	-10.393	18.409	1.00	0.00
ATOM	1004	N	ALA	65	5.182	-13.896	22.186	1.00	0.00
ATOM	1005	CA	ALA	65	5.623	-15.232	22.545	1.00	0.00
ATOM	1007	C	ALA	65	4.910	-15.696	23.802	1.00	0.00
ATOM	1008	O	ALA	65	4.450	-16.833	23.882	1.00	0.00
ATOM	1006	CB	ALA	65	7.132	-15.262	22.741	1.00	0.00
ATOM	1009	H	ALA	65	5.768	-13.131	22.374	1.00	0.00
ATOM	1010	HA	ALA	65	5.372	-15.898	21.731	1.00	0.00
ATOM	1011	1HB	ALA	65	7.542	-14.287	22.523	1.00	0.00
ATOM	1012	2HB	ALA	65	7.568	-15.993	22.078	1.00	0.00
ATOM	1013	3HB	ALA	65	7.356	-15.525	23.765	1.00	0.00
ATOM	1014	N	ALA	66	4.813	-14.797	24.777	1.00	0.00
ATOM	1015	CA	ALA	66	4.143	-15.096	26.038	1.00	0.00
ATOM	1017	C	ALA	66	2.723	-15.596	25.794	1.00	0.00
ATOM	1018	O	ALA	66	2.275	-16.557	26.417	1.00	0.00
ATOM	1016	CB	ALA	66	4.132	-13.867	26.925	1.00	0.00
ATOM	1019	H	ALA	66	5.201	-13.898	24.641	1.00	0.00
ATOM	1020	HA	ALA	66	4.704	-15.868	26.542	1.00	0.00
ATOM	1021	1HB	ALA	66	4.658	-13.062	26.433	1.00	0.00
ATOM	1022	2HB	ALA	66	4.617	-14.094	27.863	1.00	0.00
ATOM	1023	3HB	ALA	66	3.111	-13.567	27.112	1.00	0.00
ATOM	1024	N	GLN	67	2.028	-14.938	24.876	1.00	0.00
ATOM	1025	CA	GLN	67	0.657	-15.313	24.532	1.00	0.00
ATOM	1031	C	GLN	67	0.585	-16.701	23.900	1.00	0.00
ATOM	1032	O	GLN	67	-0.144	-17.573	24.374	1.00	0.00
ATOM	1026	CB	GLN	67	0.058	-14.306	23.554	1.00	0.00
ATOM	1027	CG	GLN	67	-0.568	-13.098	24.215	1.00	0.00
ATOM	1028	CD	GLN	67	-0.940	-12.035	23.207	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.095	-11.917	22.808	1.00	0.00
ATOM	1030	NE2	GLN	67	0.043	-11.256	22.785	1.00	0.00
ATOM	1033	H	GLN	67	2.449	-14.177	24.411	1.00	0.00
ATOM	1034	HA	GLN	67	0.072	-15.309	25.439	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.702	-14.802	22.968	1.00	0.00
ATOM	1036	2HB	GLN	67	0.838	-13.959	22.893	1.00	0.00
ATOM	1037	1HG	GLN	67	0.135	-12.679	24.921	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.462	-13.409	24.737	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.946	-11.413	23.145	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.168	-10.557	22.135	1.00	0.00



ATOM	1041	N	LEU	68	1.318	-16.886	22.810	1.00	0.00
ATOM	1042	CA	LEU	68	1.307	-18.154	22.085	1.00	0.00
ATOM	1047	C	LEU	68	2.208	-19.207	22.725	1.00	0.00
ATOM	1048	O	LEU	68	2.477	-20.249	22.129	1.00	0.00
ATOM	1043	CB	LEU	68	1.706	-17.930	20.622	1.00	0.00
ATOM	1044	CG	LEU	68	0.595	-17.391	19.708	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.785	-17.750	20.245	1.00	0.00
ATOM	1046	CD2	LEU	68	0.725	-15.885	19.540	1.00	0.00
ATOM	1049	H	LEU	68	1.864	-16.144	22.465	1.00	0.00
ATOM	1050	HA	LEU	68	0.293	-18.525	22.108	1.00	0.00
ATOM	1051	1HB	LEU	68	2.048	-18.872	20.217	1.00	0.00
ATOM	1052	2HB	LEU	68	2.531	-17.231	20.601	1.00	0.00
ATOM	1053	HG	LEU	68	0.696	-17.843	18.732	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.846	-18.817	20.399	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.538	-17.445	19.534	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.949	-17.240	21.184	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.235	-15.421	19.711	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.060	-15.661	18.539	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.441	-15.505	20.254	1.00	0.00
ATOM	1060	N	HIS	69	2.663	-18.944	23.940	1.00	0.00
ATOM	1061	CA	HIS	69	3.518	-19.886	24.648	1.00	0.00
ATOM	1068	C	HIS	69	2.680	-21.021	25.218	1.00	0.00
ATOM	1069	O	HIS	69	3.177	-22.122	25.450	1.00	0.00
ATOM	1062	CB	HIS	69	4.263	-19.181	25.784	1.00	0.00
ATOM	1063	CG	HIS	69	5.522	-19.871	26.202	1.00	0.00
ATOM	1064	ND1	HIS	69	5.843	-20.129	27.518	1.00	0.00
ATOM	1065	CD2	HIS	69	6.550	-20.352	25.465	1.00	0.00
ATOM	1066	CE1	HIS	69	7.016	-20.734	27.570	1.00	0.00
ATOM	1067	NE2	HIS	69	7.466	-20.882	26.339	1.00	0.00
ATOM	1070	H	HIS	69	2.421	-18.097	24.372	1.00	0.00
ATOM	1071	HA	HIS	69	4.232	-20.289	23.946	1.00	0.00
ATOM	1072	1HB	HIS	69	3.615	-19.118	26.645	1.00	0.00
ATOM	1073	2HB	HIS	69	4.526	-18.183	25.465	1.00	0.00
ATOM	1074	HD1	HIS	69	5.294	-19.903	28.300	1.00	0.00
ATOM	1075	HD2	HIS	69	6.635	-20.318	24.388	1.00	0.00
ATOM	1076	HE1	HIS	69	7.523	-21.053	28.470	1.00	0.00
ATOM	1077	HE2	HIS	69	8.394	-21.134	26.103	1.00	0.00
ATOM	1078	N	VAL	70	1.406	-20.736	25.444	1.00	0.00
ATOM	1079	CA	VAL	70	0.487	-21.721	25.989	1.00	0.00
ATOM	1083	C	VAL	70	-0.216	-22.491	24.876	1.00	0.00
ATOM	1084	O	VAL	70	0.115	-23.643	24.598	1.00	0.00
ATOM	1080	CB	VAL	70	-0.578	-21.074	26.905	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.811	-21.933	28.136	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.174	-19.662	27.311	1.00	0.00
ATOM	1085	H	VAL	70	1.076	-19.837	25.237	1.00	0.00
ATOM	1086	HA	VAL	70	1.063	-22.418	26.582	1.00	0.00
ATOM	1087	HB	VAL	70	-1.507	-21.015	26.355	1.00	0.00
ATOM	1088	1HG1	VAL	70	-1.139	-21.309	28.953	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.109	-22.428	28.407	1.00	0.00
ATOM	1090	3HG1	VAL	70	-1.568	-22.673	27.922	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.054	-19.038	27.363	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.511	-19.259	26.582	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.303	-19.690	28.279	1.00	0.00
ATOM	1094	N	THR	71	-1.195	-21.847	24.250	1.00	0.00
ATOM	1095	CA	THR	71	-1.963	-22.464	23.176	1.00	0.00
ATOM	1099	C	THR	71	-2.663	-21.396	22.335	1.00	0.00
ATOM	1100	O	THR	71	-3.093	-20.367	22.865	1.00	0.00
ATOM	1096	CB	THR	71	-3.031	-23.433	23.736	1.00	0.00
ATOM	1097	CG1	THR	71	-3.051	-23.377	25.173	1.00	0.00
ATOM	1098	CG2	THR	71	-2.760	-24.861	23.287	1.00	0.00
ATOM	1101	H	THR	71	-1.415	-20.932	24.521	1.00	0.00
ATOM	1102	HA	THR	71	-1.284	-23.022	22.549	1.00	0.00
ATOM	1103	HB	THR	71	-3.998	-23.132	23.360	1.00	0.00
ATOM	1104	HG1	THR	71	-2.284	-23.849	25.516	1.00	0.00
ATOM	1105	1HG2	THR	71	-3.357	-25.543	23.875	1.00	0.00
ATOM	1106	2HG2	THR	71	-1.713	-25.090	23.421	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.021	-24.965	22.243	1.00	0.00
ATOM	1108	N	PRO	72	-2.793	-21.627	21.018	1.00	0.00
ATOM	1109	CA	PRO	72	-3.453	-20.687	20.108	1.00	0.00
ATOM	1113	C	PRO	72	-4.965	-20.656	20.326	1.00	0.00
ATOM	1114	O	PRO	72	-5.501	-21.431	21.119	1.00	0.00
ATOM	1110	CB	PRO	72	-3.130	-21.235	18.707	1.00	0.00
ATOM	1111	CG	PRO	72	-2.108	-22.304	18.913	1.00	0.00



ATOM	1112	CD	PRO	72	-2.316	-22.817	20.307	1.00	0.00
ATOM	1115	HA	PRO	72	-3.054	-19.688	20.210	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.744	-20.438	18.089	1.00	0.00
ATOM	1117	2HB	PRO	72	-4.030	-21.633	18.261	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.117	-21.887	18.812	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.257	-23.097	18.195	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.385	-23.170	20.724	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.060	-23.600	20.316	1.00	0.00
ATOM	1122	N	GLY	73	-5.649	-19.761	19.626	1.00	0.00
ATOM	1123	CA	GLY	73	-7.090	-19.658	19.767	1.00	0.00
ATOM	1124	C	GLY	73	-7.491	-18.760	20.920	1.00	0.00
ATOM	1125	O	GLY	73	-8.198	-17.769	20.731	1.00	0.00
ATOM	1126	H	GLY	73	-5.174	-19.165	19.008	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.496	-20.643	19.936	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.504	-19.260	18.852	1.00	0.00
ATOM	1129	N	SER	74	-7.028	-19.106	22.115	1.00	0.00
ATOM	1130	CA	SER	74	-7.322	-18.342	23.325	1.00	0.00
ATOM	1133	C	SER	74	-6.528	-17.035	23.365	1.00	0.00
ATOM	1134	O	SER	74	-5.863	-16.718	24.356	1.00	0.00
ATOM	1131	CB	SER	74	-6.994	-19.200	24.547	1.00	0.00
ATOM	1132	OG	SER	74	-6.408	-20.434	24.152	1.00	0.00
ATOM	1135	H	SER	74	-6.464	-19.908	22.192	1.00	0.00
ATOM	1136	HA	SER	74	-8.377	-18.109	23.328	1.00	0.00
ATOM	1137	1HB	SER	74	-7.900	-19.403	25.098	1.00	0.00
ATOM	1138	2HB	SER	74	-6.297	-18.670	25.181	1.00	0.00
ATOM	1139	HG	SER	74	-5.450	-20.377	24.237	1.00	0.00
ATOM	1140	N	ALA	75	-6.601	-16.282	22.280	1.00	0.00
ATOM	1141	CA	ALA	75	-5.897	-15.019	22.175	1.00	0.00
ATOM	1143	C	ALA	75	-6.874	-13.852	22.134	1.00	0.00
ATOM	1144	O	ALA	75	-6.522	-12.730	22.497	1.00	0.00
ATOM	1142	CB	ALA	75	-5.008	-15.014	20.941	1.00	0.00
ATOM	1145	H	ALA	75	-7.146	-16.595	21.522	1.00	0.00
ATOM	1146	HA	ALA	75	-5.267	-14.916	23.041	1.00	0.00
ATOM	1147	1HB	ALA	75	-3.978	-14.885	21.241	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.299	-14.203	20.291	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.116	-15.952	20.417	1.00	0.00
ATOM	1150	N	GLN	76	-8.102	-14.113	21.688	1.00	0.00
ATOM	1151	CA	GLN	76	-9.110	-13.060	21.598	1.00	0.00
ATOM	1157	C	GLN	76	-9.471	-12.524	22.970	1.00	0.00
ATOM	1158	O	GLN	76	-9.758	-11.340	23.118	1.00	0.00
ATOM	1152	CB	GLN	76	-10.362	-13.528	20.843	1.00	0.00
ATOM	1153	CG	GLN	76	-10.840	-14.919	21.199	1.00	0.00
ATOM	1154	CD	GLN	76	-12.128	-15.283	20.486	1.00	0.00
ATOM	1155	OE1	GLN	76	-13.121	-15.640	21.117	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.119	-15.198	19.164	1.00	0.00
ATOM	1159	H	GLN	76	-8.329	-15.025	21.410	1.00	0.00
ATOM	1160	HA	GLN	76	-8.663	-12.251	21.039	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.149	-13.508	19.782	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.166	-12.837	21.046	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.009	-14.961	22.257	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.079	-15.633	20.925	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.292	-14.914	18.720	1.00	0.00
ATOM	1166	2HE2	GLN	76	-12.946	-15.409	18.680	1.00	0.00
ATOM	1167	N	GLN	77	-9.431	-13.386	23.972	1.00	0.00
ATOM	1168	CA	GLN	77	-9.736	-12.975	25.333	1.00	0.00
ATOM	1174	C	GLN	77	-8.598	-12.124	25.885	1.00	0.00
ATOM	1175	O	GLN	77	-8.821	-11.175	26.629	1.00	0.00
ATOM	1169	CB	GLN	77	-9.970	-14.196	26.229	1.00	0.00
ATOM	1170	CG	GLN	77	-11.060	-15.129	25.720	1.00	0.00
ATOM	1171	CD	GLN	77	-10.528	-16.211	24.795	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.417	-16.107	24.269	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.317	-17.249	24.581	1.00	0.00
ATOM	1176	H	GLN	77	-9.176	-14.324	23.797	1.00	0.00
ATOM	1177	HA	GLN	77	-10.632	-12.373	25.303	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.249	-13.856	27.215	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.050	-14.758	26.298	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.792	-14.545	25.181	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.534	-15.603	26.567	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.196	-17.266	25.026	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.998	-17.958	23.987	1.00	0.00
ATOM	1184	N	ARG	78	-7.377	-12.459	25.490	1.00	0.00
ATOM	1185	CA	ARG	78	-6.205	-11.714	25.926	1.00	0.00
ATOM	1193	C	ARG	78	-6.195	-10.340	25.274	1.00	0.00



ATOM	1194	O	ARG	78	-5.938	-9.328	25.928	1.00	0.00
ATOM	1186	CB	ARG	78	-4.924	-12.464	25.559	1.00	0.00
ATOM	1187	CG	ARG	78	-4.436	-13.413	26.635	1.00	0.00
ATOM	1188	CD	ARG	78	-3.450	-14.420	26.067	1.00	0.00
ATOM	1189	NE	ARG	78	-3.580	-15.733	26.698	1.00	0.00
ATOM	1190	CZ	ARG	78	-2.981	-16.075	27.840	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.203	-15.205	28.478	1.00	0.00
ATOM	1192	NH2	ARG	78	-3.158	-17.288	28.345	1.00	0.00
ATOM	1195	H	ARG	78	-7.264	-13.215	24.878	1.00	0.00
ATOM	1196	HA	ARG	78	-6.259	-11.595	26.998	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.144	-11.741	25.365	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.102	-13.034	24.661	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.283	-13.942	27.046	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.950	-12.844	27.413	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.448	-14.052	26.227	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.631	-14.521	25.008	1.00	0.00
ATOM	1203	HE	ARG	78	-4.149	-16.393	26.240	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.058	-14.285	28.105	1.00	0.00
ATOM	1205	2HH1	ARG	78	-1.757	-15.466	29.339	1.00	0.00
ATOM	1206	1HH2	ARG	78	-3.737	-17.953	27.875	1.00	0.00
ATOM	1207	2HH2	ARG	78	-2.704	-17.544	29.213	1.00	0.00
ATOM	1208	N	PHE	79	-6.483	-10.321	23.977	1.00	0.00
ATOM	1209	CA	PHE	79	-6.517	-9.085	23.214	1.00	0.00
ATOM	1217	C	PHE	79	-7.597	-8.154	23.751	1.00	0.00
ATOM	1218	O	PHE	79	-7.342	-6.976	23.988	1.00	0.00
ATOM	1210	CB	PHE	79	-6.760	-9.370	21.731	1.00	0.00
ATOM	1211	CG	PHE	79	-6.141	-8.352	20.818	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.778	-8.108	20.852	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.924	-7.637	19.927	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.208	-7.168	20.015	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.361	-6.695	19.089	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.000	-6.461	19.132	1.00	0.00
ATOM	1219	H	PHE	79	-6.677	-11.169	23.518	1.00	0.00
ATOM	1220	HA	PHE	79	-5.555	-8.603	23.324	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.822	-9.382	21.544	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.345	-10.336	21.482	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.989	-7.820	19.893	1.00	0.00
ATOM	1224	HD2	PHE	79	-4.158	-8.661	21.541	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.983	-6.144	18.399	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.143	-6.987	20.051	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.557	-5.726	18.477	1.00	0.00
ATOM	1228	N	THR	80	-8.805	-8.684	23.947	1.00	0.00
ATOM	1229	CA	THR	80	-9.909	-7.873	24.464	1.00	0.00
ATOM	1233	C	THR	80	-9.557	-7.257	25.821	1.00	0.00
ATOM	1234	O	THR	80	-9.963	-6.131	26.116	1.00	0.00
ATOM	1230	CB	THR	80	-11.216	-8.679	24.595	1.00	0.00
ATOM	1231	OG1	THR	80	-10.932	-10.017	25.007	1.00	0.00
ATOM	1232	CG2	THR	80	-11.975	-8.700	23.275	1.00	0.00
ATOM	1235	H	THR	80	-8.957	-9.637	23.734	1.00	0.00
ATOM	1236	HA	THR	80	-10.079	-7.070	23.759	1.00	0.00
ATOM	1237	HB	THR	80	-11.839	-8.206	25.340	1.00	0.00
ATOM	1238	HG1	THR	80	-10.711	-10.550	24.234	1.00	0.00
ATOM	1239	1HG2	THR	80	-13.026	-8.532	23.460	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.844	-9.663	22.801	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.594	-7.925	22.626	1.00	0.00
ATOM	1242	N	GLN	81	-8.790	-7.985	26.636	1.00	0.00
ATOM	1243	CA	GLN	81	-8.378	-7.489	27.949	1.00	0.00
ATOM	1249	C	GLN	81	-7.581	-6.202	27.806	1.00	0.00
ATOM	1250	O	GLN	81	-7.991	-5.146	28.285	1.00	0.00
ATOM	1244	CB	GLN	81	-7.515	-8.523	28.676	1.00	0.00
ATOM	1245	CG	GLN	81	-8.306	-9.679	29.247	1.00	0.00
ATOM	1246	CD	GLN	81	-8.996	-9.330	30.551	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.595	-8.403	31.254	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.032	-10.077	30.885	1.00	0.00
ATOM	1251	H	GLN	81	-8.486	-8.876	26.343	1.00	0.00
ATOM	1252	HA	GLN	81	-9.266	-7.294	28.530	1.00	0.00
ATOM	1253	1HB	GLN	81	-6.996	-8.035	29.487	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.789	-8.920	27.983	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.636	-10.509	29.419	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.053	-9.963	28.525	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.291	-10.804	30.284	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.503	-9.869	31.721	1.00	0.00
ATOM	1259	N	VAL	82	-6.437	-6.313	27.143	1.00	0.00



ATOM	1260	CA	VAL	82	-5.550	-5.171	26.931	1.00	0.00
ATOM	1264	C	VAL	82	-6.247	-4.046	26.167	1.00	0.00
ATOM	1265	O	VAL	82	-5.959	-2.874	26.388	1.00	0.00
ATOM	1261	CB	VAL	82	-4.256	-5.580	26.189	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.597	-6.753	26.887	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.523	-5.918	24.729	1.00	0.00
ATOM	1266	H	VAL	82	-6.178	-7.195	26.794	1.00	0.00
ATOM	1267	HA	VAL	82	-5.264	-4.794	27.908	1.00	0.00
ATOM	1268	HB	VAL	82	-3.575	-4.746	26.222	1.00	0.00
ATOM	1269	1HG1	VAL	82	-2.637	-6.447	27.277	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.458	-7.559	26.183	1.00	0.00
ATOM	1271	3HG1	VAL	82	-4.225	-7.089	27.699	1.00	0.00
ATOM	1272	1HG2	VAL	82	-4.119	-5.140	24.099	1.00	0.00
ATOM	1273	2HG2	VAL	82	-5.588	-5.995	24.566	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.053	-6.859	24.485	1.00	0.00
ATOM	1275	N	SER	83	-7.172	-4.400	25.281	1.00	0.00
ATOM	1276	CA	SER	83	-7.902	-3.400	24.513	1.00	0.00
ATOM	1279	C	SER	83	-8.789	-2.578	25.439	1.00	0.00
ATOM	1280	O	SER	83	-8.865	-1.354	25.322	1.00	0.00
ATOM	1277	CB	SER	83	-8.744	-4.064	23.424	1.00	0.00
ATOM	1278	OG	SER	83	-7.934	-4.828	22.547	1.00	0.00
ATOM	1281	H	SER	83	-7.372	-5.350	25.149	1.00	0.00
ATOM	1282	HA	SER	83	-7.177	-2.743	24.050	1.00	0.00
ATOM	1283	1HB	SER	83	-9.256	-3.304	22.853	1.00	0.00
ATOM	1284	2HB	SER	83	-9.471	-4.718	23.883	1.00	0.00
ATOM	1285	HG	SER	83	-7.541	-5.564	23.032	1.00	0.00
ATOM	1286	N	ASP	84	-9.437	-3.261	26.376	1.00	0.00
ATOM	1287	CA	ASP	84	-10.307	-2.608	27.345	1.00	0.00
ATOM	1292	C	ASP	84	-9.477	-1.753	28.291	1.00	0.00
ATOM	1293	O	ASP	84	-9.878	-0.654	28.676	1.00	0.00
ATOM	1288	CB	ASP	84	-11.087	-3.652	28.150	1.00	0.00
ATOM	1289	CG	ASP	84	-12.562	-3.694	27.798	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.978	-2.993	26.858	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.309	-4.443	28.464	1.00	0.00
ATOM	1294	H	ASP	84	-9.315	-4.235	26.426	1.00	0.00
ATOM	1295	HA	ASP	84	-11.000	-1.977	26.809	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.995	-3.426	29.202	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.668	-4.628	27.961	1.00	0.00
ATOM	1298	N	GLU	85	-8.311	-2.270	28.659	1.00	0.00
ATOM	1299	CA	GLU	85	-7.408	-1.569	29.558	1.00	0.00
ATOM	1305	C	GLU	85	-6.789	-0.353	28.870	1.00	0.00
ATOM	1306	O	GLU	85	-6.508	0.658	29.512	1.00	0.00
ATOM	1300	CB	GLU	85	-6.318	-2.520	30.054	1.00	0.00
ATOM	1301	CG	GLU	85	-6.819	-3.524	31.079	1.00	0.00
ATOM	1302	CD	GLU	85	-5.902	-4.723	31.235	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.140	-5.022	30.295	1.00	0.00
ATOM	1304	OE2	GLU	85	-5.948	-5.369	32.311	1.00	0.00
ATOM	1307	H	GLU	85	-8.050	-3.154	28.315	1.00	0.00
ATOM	1308	HA	GLU	85	-7.986	-1.229	30.403	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.526	-1.940	30.505	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.919	-3.065	29.211	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.795	-3.875	30.771	1.00	0.00
ATOM	1312	2HG	GLU	85	-6.903	-3.031	32.035	1.00	0.00
ATOM	1313	N	LEU	86	-6.587	-0.455	27.565	1.00	0.00
ATOM	1314	CA	LEU	86	-6.007	0.633	26.787	1.00	0.00
ATOM	1319	C	LEU	86	-7.051	1.708	26.488	1.00	0.00
ATOM	1320	O	LEU	86	-6.739	2.897	26.458	1.00	0.00
ATOM	1315	CB	LEU	86	-5.418	0.100	25.476	1.00	0.00
ATOM	1316	CG	LEU	86	-3.890	0.082	25.408	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.386	-1.323	25.124	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.391	1.050	24.344	1.00	0.00
ATOM	1321	H	LEU	86	-6.833	-1.291	27.108	1.00	0.00
ATOM	1322	HA	LEU	86	-5.214	1.073	27.374	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.786	0.711	24.666	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.775	-0.910	25.333	1.00	0.00
ATOM	1325	HG	LEU	86	-3.488	0.395	26.361	1.00	0.00
ATOM	1326	1HD1	LEU	86	-4.004	-2.039	25.645	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.365	-1.415	25.462	1.00	0.00
ATOM	1328	3HD1	LEU	86	-3.432	-1.514	24.062	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.742	2.045	24.571	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.766	0.747	23.378	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.311	1.043	24.331	1.00	0.00
ATOM	1332	N	PHE	87	-8.289	1.286	26.265	1.00	0.00



ATOM	1333	CA	PHE	87	-9.372	2.219	25.965	1.00	0.00
ATOM	1341	C	PHE	87	-10.048	2.703	27.246	1.00	0.00
ATOM	1342	O	PHE	87	-10.940	3.547	27.202	1.00	0.00
ATOM	1334	CB	PHE	87	-10.407	1.558	25.046	1.00	0.00
ATOM	1335	CG	PHE	87	-11.375	2.529	24.426	1.00	0.00
ATOM	1336	CD1	PHE	87	-10.980	3.351	23.386	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.677	2.627	24.894	1.00	0.00
ATOM	1338	CE1	PHE	87	-11.863	4.252	22.821	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.563	3.528	24.335	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.156	4.341	23.298	1.00	0.00
ATOM	1343	H	PHE	87	-8.482	0.322	26.297	1.00	0.00
ATOM	1344	HA	PHE	87	-8.944	3.070	25.456	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.975	0.838	25.617	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.892	1.049	24.246	1.00	0.00
ATOM	1347	HD1	PHE	87	-12.998	1.990	25.707	1.00	0.00
ATOM	1348	HD2	PHE	87	-9.970	3.282	23.011	1.00	0.00
ATOM	1349	HE1	PHE	87	-14.574	3.593	24.709	1.00	0.00
ATOM	1350	HE2	PHE	87	-11.541	4.886	22.008	1.00	0.00
ATOM	1351	HZ	PHE	87	-13.846	5.046	22.859	1.00	0.00
ATOM	1352	N	GLN	88	-9.618	2.150	28.380	1.00	0.00
ATOM	1353	CA	GLN	88	-10.177	2.498	29.687	1.00	0.00
ATOM	1359	C	GLN	88	-10.330	4.007	29.861	1.00	0.00
ATOM	1360	O	GLN	88	-11.355	4.480	30.355	1.00	0.00
ATOM	1354	CB	GLN	88	-9.303	1.934	30.807	1.00	0.00
ATOM	1355	CG	GLN	88	-10.099	1.430	31.999	1.00	0.00
ATOM	1356	CD	GLN	88	-9.656	0.058	32.465	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.165	-0.100	33.580	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.827	-0.945	31.616	1.00	0.00
ATOM	1361	H	GLN	88	-8.910	1.472	28.334	1.00	0.00
ATOM	1362	HA	GLN	88	-11.155	2.046	29.753	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.633	2.708	31.148	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.720	1.111	30.414	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.142	1.381	31.723	1.00	0.00
ATOM	1366	2HG	GLN	88	-9.976	2.125	32.815	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.223	-0.749	30.737	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.549	-1.841	31.897	1.00	0.00
ATOM	1369	N	GLY	89	-9.320	4.759	29.446	1.00	0.00
ATOM	1370	CA	GLY	89	-9.389	6.199	29.565	1.00	0.00
ATOM	1371	C	GLY	89	-8.185	6.898	28.975	1.00	0.00
ATOM	1372	O	GLY	89	-7.447	7.574	29.691	1.00	0.00
ATOM	1373	H	GLY	89	-8.529	4.335	29.052	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.464	6.458	30.611	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.277	6.546	29.057	1.00	0.00
ATOM	1376	N	GLY	90	-7.984	6.757	27.669	1.00	0.00
ATOM	1377	CA	GLY	90	-6.859	7.418	27.042	1.00	0.00
ATOM	1378	C	GLY	90	-6.474	6.864	25.676	1.00	0.00
ATOM	1379	O	GLY	90	-5.308	6.530	25.462	1.00	0.00
ATOM	1380	H	GLY	90	-8.604	6.218	27.135	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.005	7.332	27.699	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.097	8.465	26.928	1.00	0.00
ATOM	1383	N	PRO	91	-7.409	6.781	24.705	1.00	0.00
ATOM	1384	CA	PRO	91	-7.091	6.293	23.364	1.00	0.00
ATOM	1388	C	PRO	91	-6.446	7.377	22.505	1.00	0.00
ATOM	1389	O	PRO	91	-6.770	7.535	21.331	1.00	0.00
ATOM	1385	CB	PRO	91	-8.446	5.905	22.780	1.00	0.00
ATOM	1386	CG	PRO	91	-9.476	6.637	23.569	1.00	0.00
ATOM	1387	CD	PRO	91	-8.823	7.178	24.820	1.00	0.00
ATOM	1390	HA	PRO	91	-6.446	5.427	23.397	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.576	4.838	22.854	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.484	6.210	21.744	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.286	5.967	23.819	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.852	7.447	22.973	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.274	6.736	25.697	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.916	8.253	24.855	1.00	0.00
ATOM	1397	N	ASN	92	-5.538	8.126	23.114	1.00	0.00
ATOM	1398	CA	ASN	92	-4.846	9.213	22.437	1.00	0.00
ATOM	1403	C	ASN	92	-3.886	8.687	21.379	1.00	0.00
ATOM	1404	O	ASN	92	-3.514	7.514	21.407	1.00	0.00
ATOM	1399	CB	ASN	92	-4.097	10.065	23.459	1.00	0.00
ATOM	1400	CG	ASN	92	-4.509	11.523	23.406	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.492	12.145	22.347	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.872	12.082	24.552	1.00	0.00
ATOM	1405	H	ASN	92	-5.335	7.941	24.051	1.00	0.00



ATOM	1406	HA	ASN	92	-5.590	9.825	21.953	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.038	10.002	23.264	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.300	9.688	24.450	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.855	11.533	25.363	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.144	13.024	24.540	1.00	0.00
ATOM	1411	N	TRP	93	-3.495	9.556	20.445	1.00	0.00
ATOM	1412	CA	TRP	93	-2.586	9.178	19.358	1.00	0.00
ATOM	1423	C	TRP	93	-1.290	8.554	19.883	1.00	0.00
ATOM	1424	O	TRP	93	-0.673	7.745	19.193	1.00	0.00
ATOM	1413	CB	TRP	93	-2.254	10.382	18.464	1.00	0.00
ATOM	1414	CG	TRP	93	-3.408	11.317	18.213	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.572	12.563	18.749	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.546	11.099	17.358	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.733	13.128	18.283	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.347	12.255	17.435	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.973	10.047	16.535	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.538	12.391	16.729	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.162	10.191	15.832	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.927	11.355	15.937	1.00	0.00
ATOM	1425	H	TRP	93	-3.837	10.475	20.480	1.00	0.00
ATOM	1426	HA	TRP	93	-3.093	8.438	18.755	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.906	10.018	17.505	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.465	10.954	18.930	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.880	13.024	19.437	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.073	14.029	18.517	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.395	9.141	16.442	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.142	13.284	16.797	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.511	9.399	15.187	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.845	11.421	15.372	1.00	0.00
ATOM	1435	N	GLY	94	-0.888	8.908	21.105	1.00	0.00
ATOM	1436	CA	GLY	94	0.316	8.341	21.674	1.00	0.00
ATOM	1437	C	GLY	94	0.161	6.850	21.898	1.00	0.00
ATOM	1438	O	GLY	94	1.073	6.066	21.638	1.00	0.00
ATOM	1439	H	GLY	94	-1.419	9.542	21.630	1.00	0.00
ATOM	1440	1HA	GLY	94	0.519	8.820	22.620	1.00	0.00
ATOM	1441	2HA	GLY	94	1.143	8.519	21.001	1.00	0.00
ATOM	1442	N	ARG	95	-1.015	6.460	22.369	1.00	0.00
ATOM	1443	CA	ARG	95	-1.316	5.059	22.612	1.00	0.00
ATOM	1451	C	ARG	95	-1.862	4.397	21.353	1.00	0.00
ATOM	1452	O	ARG	95	-1.790	3.178	21.210	1.00	0.00
ATOM	1444	CB	ARG	95	-2.307	4.919	23.765	1.00	0.00
ATOM	1445	CG	ARG	95	-1.677	5.148	25.126	1.00	0.00
ATOM	1446	CD	ARG	95	-1.755	3.905	25.993	1.00	0.00
ATOM	1447	NE	ARG	95	-0.652	2.975	25.737	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.436	1.875	26.457	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.250	1.573	27.461	1.00	0.00
ATOM	1450	NH2	ARG	95	0.585	1.073	26.169	1.00	0.00
ATOM	1453	H	ARG	95	-1.706	7.133	22.540	1.00	0.00
ATOM	1454	HA	ARG	95	-0.393	4.570	22.878	1.00	0.00
ATOM	1455	1HB	ARG	95	-2.727	3.925	23.747	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.102	5.639	23.633	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.197	5.955	25.622	1.00	0.00
ATOM	1458	2HG	ARG	95	-0.639	5.415	24.991	1.00	0.00
ATOM	1459	1HD	ARG	95	-2.689	3.402	25.792	1.00	0.00
ATOM	1460	2HD	ARG	95	-1.724	4.203	27.030	1.00	0.00
ATOM	1461	HE	ARG	95	-0.051	3.185	24.991	1.00	0.00
ATOM	1462	1HH1	ARG	95	-2.028	2.168	27.675	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.090	0.753	28.019	1.00	0.00
ATOM	1464	1HH2	ARG	95	1.200	1.290	25.410	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.744	0.245	26.712	1.00	0.00
ATOM	1466	N	LEU	96	-2.398	5.215	20.447	1.00	0.00
ATOM	1467	CA	LEU	96	-2.957	4.734	19.183	1.00	0.00
ATOM	1472	C	LEU	96	-1.915	3.924	18.423	1.00	0.00
ATOM	1473	O	LEU	96	-2.237	2.965	17.713	1.00	0.00
ATOM	1468	CB	LEU	96	-3.431	5.923	18.335	1.00	0.00
ATOM	1469	CG	LEU	96	-4.532	5.631	17.305	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.928	5.439	15.924	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.354	4.413	17.701	1.00	0.00
ATOM	1474	H	LEU	96	-2.418	6.180	20.633	1.00	0.00
ATOM	1475	HA	LEU	96	-3.802	4.099	19.410	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.576	6.319	17.808	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.798	6.686	19.006	1.00	0.00
ATOM	1478	HG	LEU	96	-5.198	6.481	17.256	1.00	0.00



ATOM	1479	1HD1	LEU	96	-3.152	4.689	15.972	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.505	6.373	15.583	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.696	5.119	15.236	1.00	0.00
ATOM	1482	1HD2	LEU	96	-4.703	3.661	18.120	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.850	4.015	16.830	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.091	4.702	18.436	1.00	0.00
ATOM	1485	N	VAL	97	-0.659	4.302	18.611	1.00	0.00
ATOM	1486	CA	VAL	97	0.449	3.610	17.985	1.00	0.00
ATOM	1490	C	VAL	97	0.484	2.165	18.459	1.00	0.00
ATOM	1491	O	VAL	97	0.477	1.233	17.660	1.00	0.00
ATOM	1487	CB	VAL	97	1.788	4.262	18.344	1.00	0.00
ATOM	1488	CG1	VAL	97	2.864	3.732	17.427	1.00	0.00
ATOM	1489	CG2	VAL	97	1.702	5.778	18.265	1.00	0.00
ATOM	1492	H	VAL	97	-0.475	5.056	19.215	1.00	0.00
ATOM	1493	HA	VAL	97	0.327	3.642	16.906	1.00	0.00
ATOM	1494	HB	VAL	97	2.041	3.986	19.357	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.605	3.955	16.403	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.949	2.662	17.553	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.806	4.200	17.669	1.00	0.00
ATOM	1498	1HG2	VAL	97	2.015	6.106	17.284	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.346	6.215	19.013	1.00	0.00
ATOM	1500	3HG2	VAL	97	0.682	6.090	18.440	1.00	0.00
ATOM	1501	N	ALA	98	0.506	2.005	19.778	1.00	0.00
ATOM	1502	CA	ALA	98	0.534	0.691	20.403	1.00	0.00
ATOM	1504	C	ALA	98	-0.719	-0.107	20.070	1.00	0.00
ATOM	1505	O	ALA	98	-0.675	-1.330	20.018	1.00	0.00
ATOM	1503	CB	ALA	98	0.692	0.824	21.910	1.00	0.00
ATOM	1506	H	ALA	98	0.494	2.798	20.349	1.00	0.00
ATOM	1507	HA	ALA	98	1.395	0.161	20.022	1.00	0.00
ATOM	1508	1HB	ALA	98	0.128	1.677	22.258	1.00	0.00
ATOM	1509	2HB	ALA	98	1.735	0.960	22.152	1.00	0.00
ATOM	1510	3HB	ALA	98	0.324	-0.070	22.391	1.00	0.00
ATOM	1511	N	PHE	99	-1.825	0.594	19.838	1.00	0.00
ATOM	1512	CA	PHE	99	-3.085	-0.052	19.498	1.00	0.00
ATOM	1520	C	PHE	99	-2.909	-0.923	18.260	1.00	0.00
ATOM	1521	O	PHE	99	-3.184	-2.121	18.284	1.00	0.00
ATOM	1513	CB	PHE	99	-4.165	1.001	19.216	1.00	0.00
ATOM	1514	CG	PHE	99	-5.023	1.406	20.388	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.932	0.525	20.955	1.00	0.00
ATOM	1516	CD2	PHE	99	-4.944	2.693	20.893	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.738	0.925	22.011	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.748	3.100	21.939	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.646	2.217	22.502	1.00	0.00
ATOM	1522	H	PHE	99	-1.792	1.572	19.888	1.00	0.00
ATOM	1523	HA	PHE	99	-3.380	-0.674	20.325	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.816	0.621	18.447	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.685	1.894	18.847	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.240	3.388	20.459	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.004	-0.482	20.573	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.671	4.108	22.320	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.440	0.231	22.448	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.281	2.541	23.317	1.00	0.00
ATOM	1531	N	PHE	100	-2.449	-0.306	17.179	1.00	0.00
ATOM	1532	CA	PHE	100	-2.240	-1.023	15.927	1.00	0.00
ATOM	1540	C	PHE	100	-0.974	-1.867	15.976	1.00	0.00
ATOM	1541	O	PHE	100	-0.926	-2.964	15.417	1.00	0.00
ATOM	1533	CB	PHE	100	-2.157	-0.045	14.758	1.00	0.00
ATOM	1534	CG	PHE	100	-3.476	0.199	14.089	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.385	1.087	14.633	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.804	-0.457	12.913	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.598	1.318	14.017	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.017	-0.230	12.294	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.917	0.659	12.848	1.00	0.00
ATOM	1542	H	PHE	100	-2.247	0.657	17.223	1.00	0.00
ATOM	1543	HA	PHE	100	-3.087	-1.676	15.776	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.475	-0.436	14.017	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.786	0.903	15.116	1.00	0.00
ATOM	1546	HD1	PHE	100	-4.140	1.604	15.548	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.101	-1.153	12.480	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.301	2.013	14.454	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.263	-0.748	11.379	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.866	0.840	12.368	1.00	0.00
ATOM	1551	N	VAL	101	0.052	-1.348	16.638	1.00	0.00



ATOM	1552	CA	VAL	101	1.323	-2.048	16.751	1.00	0.00
ATOM	1556	C	VAL	101	1.156	-3.378	17.485	1.00	0.00
ATOM	1557	O	VAL	101	1.809	-4.364	17.136	1.00	0.00
ATOM	1553	CB	VAL	101	2.391	-1.169	17.455	1.00	0.00
ATOM	1554	CG1	VAL	101	3.491	-2.012	18.083	1.00	0.00
ATOM	1555	CG2	VAL	101	2.992	-0.176	16.471	1.00	0.00
ATOM	1558	H	VAL	101	-0.046	-0.464	17.057	1.00	0.00
ATOM	1559	HA	VAL	101	1.670	-2.255	15.748	1.00	0.00
ATOM	1560	HB	VAL	101	1.905	-0.609	18.242	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.425	-1.947	19.158	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.454	-1.647	17.758	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.374	-3.041	17.776	1.00	0.00
ATOM	1564	1HG2	VAL	101	3.092	0.789	16.947	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.347	-0.088	15.609	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.966	-0.524	16.157	1.00	0.00
ATOM	1567	N	PHE	102	0.277	-3.408	18.489	1.00	0.00
ATOM	1568	CA	PHE	102	0.038	-4.628	19.255	1.00	0.00
ATOM	1576	C	PHE	102	-0.377	-5.779	18.348	1.00	0.00
ATOM	1577	O	PHE	102	0.249	-6.840	18.350	1.00	0.00
ATOM	1569	CB	PHE	102	-1.039	-4.395	20.318	1.00	0.00
ATOM	1570	CG	PHE	102	-0.492	-4.182	21.702	1.00	0.00
ATOM	1571	CD1	PHE	102	0.840	-3.853	21.896	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.316	-4.308	22.808	1.00	0.00
ATOM	1573	CE1	PHE	102	1.340	-3.653	23.168	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.822	-4.110	24.083	1.00	0.00
ATOM	1575	CZ	PHE	102	0.508	-3.781	24.264	1.00	0.00
ATOM	1578	H	PHE	102	-0.231	-2.588	18.722	1.00	0.00
ATOM	1579	HA	PHE	102	0.961	-4.893	19.746	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.696	-5.252	20.349	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.613	-3.520	20.053	1.00	0.00
ATOM	1582	HD1	PHE	102	1.491	-3.751	21.041	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.355	-4.566	22.668	1.00	0.00
ATOM	1584	HE1	PHE	102	2.379	-3.396	23.307	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.475	-4.213	24.936	1.00	0.00
ATOM	1586	HZ	PHE	102	0.895	-3.625	25.259	1.00	0.00
ATOM	1587	N	GLY	103	-1.432	-5.568	17.575	1.00	0.00
ATOM	1588	CA	GLY	103	-1.910	-6.605	16.683	1.00	0.00
ATOM	1589	C	GLY	103	-1.004	-6.836	15.489	1.00	0.00
ATOM	1590	O	GLY	103	-0.830	-7.973	15.063	1.00	0.00
ATOM	1591	H	GLY	103	-1.895	-4.703	17.616	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.890	-6.341	16.330	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.983	-7.528	17.240	1.00	0.00
ATOM	1594	N	ALA	104	-0.424	-5.767	14.945	1.00	0.00
ATOM	1595	CA	ALA	104	0.470	-5.884	13.791	1.00	0.00
ATOM	1597	C	ALA	104	1.683	-6.738	14.134	1.00	0.00
ATOM	1598	O	ALA	104	2.090	-7.597	13.351	1.00	0.00
ATOM	1596	CB	ALA	104	0.906	-4.506	13.308	1.00	0.00
ATOM	1599	H	ALA	104	-0.600	-4.878	15.329	1.00	0.00
ATOM	1600	HA	ALA	104	-0.079	-6.368	12.990	1.00	0.00
ATOM	1601	1HB	ALA	104	0.090	-4.032	12.781	1.00	0.00
ATOM	1602	2HB	ALA	104	1.752	-4.608	12.645	1.00	0.00
ATOM	1603	3HB	ALA	104	1.186	-3.901	14.157	1.00	0.00
ATOM	1604	N	ALA	105	2.242	-6.520	15.320	1.00	0.00
ATOM	1605	CA	ALA	105	3.387	-7.301	15.764	1.00	0.00
ATOM	1607	C	ALA	105	2.939	-8.727	16.049	1.00	0.00
ATOM	1608	O	ALA	105	3.626	-9.691	15.706	1.00	0.00
ATOM	1606	CB	ALA	105	4.025	-6.679	17.000	1.00	0.00
ATOM	1609	H	ALA	105	1.863	-5.833	15.917	1.00	0.00
ATOM	1610	HA	ALA	105	4.118	-7.310	14.967	1.00	0.00
ATOM	1611	1HB	ALA	105	3.705	-7.218	17.881	1.00	0.00
ATOM	1612	2HB	ALA	105	3.724	-5.646	17.081	1.00	0.00
ATOM	1613	3HB	ALA	105	5.100	-6.736	16.917	1.00	0.00
ATOM	1614	N	LEU	106	1.762	-8.840	16.663	1.00	0.00
ATOM	1615	CA	LEU	106	1.169	-10.129	16.998	1.00	0.00
ATOM	1620	C	LEU	106	1.011	-10.983	15.747	1.00	0.00
ATOM	1621	O	LEU	106	1.372	-12.161	15.726	1.00	0.00
ATOM	1616	CB	LEU	106	-0.202	-9.901	17.650	1.00	0.00
ATOM	1617	CG	LEU	106	-0.455	-10.664	18.949	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.922	-9.705	20.036	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.479	-11.766	18.726	1.00	0.00
ATOM	1622	H	LEU	106	1.266	-8.021	16.888	1.00	0.00
ATOM	1623	HA	LEU	106	1.818	-10.634	17.693	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.969	-10.176	16.940	1.00	0.00



ATOM	1625	2HB	LEU	106	-0.300	-8.846	17.859	1.00	0.00
ATOM	1626	HG	LEU	106	0.467	-11.120	19.279	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.612	-10.076	21.002	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.999	-9.625	20.010	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.485	-8.731	19.868	1.00	0.00
ATOM	1630	1HD2	LEU	106	-2.343	-11.589	19.350	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.042	-12.721	18.978	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.781	-11.771	17.688	1.00	0.00
ATOM	1633	N	CYS	107	0.473	-10.358	14.712	1.00	0.00
ATOM	1634	CA	CYS	107	0.237	-10.999	13.425	1.00	0.00
ATOM	1637	C	CYS	107	1.538	-11.469	12.779	1.00	0.00
ATOM	1638	O	CYS	107	1.617	-12.584	12.263	1.00	0.00
ATOM	1635	CB	CYS	107	-0.488	-10.019	12.504	1.00	0.00
ATOM	1636	SG	CYS	107	-2.169	-9.618	13.027	1.00	0.00
ATOM	1639	H	CYS	107	0.218	-9.418	14.820	1.00	0.00
ATOM	1640	HA	CYS	107	-0.397	-11.855	13.587	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.541	-10.433	11.512	1.00	0.00
ATOM	1642	2HB	CYS	107	0.069	-9.095	12.469	1.00	0.00
ATOM	1643	HG	CYS	107	-2.086	-8.847	14.105	1.00	0.00
ATOM	1644	N	ALA	108	2.558	-10.616	12.807	1.00	0.00
ATOM	1645	CA	ALA	108	3.853	-10.943	12.221	1.00	0.00
ATOM	1647	C	ALA	108	4.437	-12.211	12.836	1.00	0.00
ATOM	1648	O	ALA	108	5.112	-12.992	12.160	1.00	0.00
ATOM	1646	CB	ALA	108	4.819	-9.779	12.393	1.00	0.00
ATOM	1649	H	ALA	108	2.433	-9.741	13.230	1.00	0.00
ATOM	1650	HA	ALA	108	3.706	-11.104	11.162	1.00	0.00
ATOM	1651	1HB	ALA	108	4.478	-9.144	13.197	1.00	0.00
ATOM	1652	2HB	ALA	108	4.863	-9.207	11.477	1.00	0.00
ATOM	1653	3HB	ALA	108	5.803	-10.159	12.626	1.00	0.00
ATOM	1654	N	GLU	109	4.179	-12.411	14.122	1.00	0.00
ATOM	1655	CA	GLU	109	4.689	-13.578	14.825	1.00	0.00
ATOM	1661	C	GLU	109	3.814	-14.812	14.612	1.00	0.00
ATOM	1662	O	GLU	109	4.291	-15.937	14.748	1.00	0.00
ATOM	1656	CB	GLU	109	4.829	-13.285	16.315	1.00	0.00
ATOM	1657	CG	GLU	109	6.237	-12.878	16.708	1.00	0.00
ATOM	1658	CD	GLU	109	6.724	-13.587	17.953	1.00	0.00
ATOM	1659	OE1	GLU	109	6.085	-14.573	18.369	1.00	0.00
ATOM	1660	OE2	GLU	109	7.763	-13.174	18.504	1.00	0.00
ATOM	1663	H	GLU	109	3.640	-11.750	14.612	1.00	0.00
ATOM	1664	HA	GLU	109	5.667	-13.791	14.425	1.00	0.00
ATOM	1665	1HB	GLU	109	4.564	-14.172	16.874	1.00	0.00
ATOM	1666	2HB	GLU	109	4.155	-12.484	16.581	1.00	0.00
ATOM	1667	1HG	GLU	109	6.252	-11.814	16.887	1.00	0.00
ATOM	1668	2HG	GLU	109	6.906	-13.114	15.894	1.00	0.00
ATOM	1669	N	SER	110	2.546	-14.619	14.276	1.00	0.00
ATOM	1670	CA	SER	110	1.657	-15.752	14.058	1.00	0.00
ATOM	1673	C	SER	110	1.872	-16.356	12.672	1.00	0.00
ATOM	1674	O	SER	110	1.646	-17.549	12.465	1.00	0.00
ATOM	1671	CB	SER	110	0.197	-15.337	14.231	1.00	0.00
ATOM	1672	OG	SER	110	0.069	-13.933	14.330	1.00	0.00
ATOM	1675	H	SER	110	2.200	-13.705	14.175	1.00	0.00
ATOM	1676	HA	SER	110	1.895	-16.501	14.798	1.00	0.00
ATOM	1677	1HB	SER	110	-0.199	-15.787	15.129	1.00	0.00
ATOM	1678	2HB	SER	110	-0.373	-15.677	13.379	1.00	0.00
ATOM	1679	HG	SER	110	0.494	-13.624	15.140	1.00	0.00
ATOM	1680	N	VAL	111	2.313	-15.527	11.730	1.00	0.00
ATOM	1681	CA	VAL	111	2.558	-15.980	10.364	1.00	0.00
ATOM	1685	C	VAL	111	3.773	-16.907	10.302	1.00	0.00
ATOM	1686	O	VAL	111	3.788	-17.876	9.544	1.00	0.00
ATOM	1682	CB	VAL	111	2.779	-14.794	9.394	1.00	0.00
ATOM	1683	CG1	VAL	111	2.980	-15.289	7.968	1.00	0.00
ATOM	1684	CG2	VAL	111	1.608	-13.828	9.452	1.00	0.00
ATOM	1687	H	VAL	111	2.473	-14.585	11.960	1.00	0.00
ATOM	1688	HA	VAL	111	1.685	-16.527	10.037	1.00	0.00
ATOM	1689	HB	VAL	111	3.671	-14.265	9.697	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.424	-16.203	7.821	1.00	0.00
ATOM	1691	2HG1	VAL	111	4.030	-15.474	7.796	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.630	-14.538	7.273	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.675	-13.133	8.628	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.637	-13.286	10.385	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.682	-14.381	9.384	1.00	0.00
ATOM	1696	N	ASN	112	4.791	-16.607	11.105	1.00	0.00
ATOM	1697	CA	ASN	112	6.005	-17.424	11.126	1.00	0.00



ATOM	1702	C	ASN	112	5.848	-18.620	12.062	1.00	0.00
ATOM	1703	O	ASN	112	6.774	-19.414	12.231	1.00	0.00
ATOM	1698	CB	ASN	112	7.236	-16.585	11.512	1.00	0.00
ATOM	1699	CG	ASN	112	7.270	-16.177	12.975	1.00	0.00
ATOM	1700	OD1	ASN	112	7.560	-16.981	13.859	1.00	0.00
ATOM	1701	ND2	ASN	112	6.994	-14.911	13.240	1.00	0.00
ATOM	1704	H	ASN	112	4.727	-15.822	11.693	1.00	0.00
ATOM	1705	HA	ASN	112	6.149	-17.801	10.123	1.00	0.00
ATOM	1706	1HB	ASN	112	7.248	-15.688	10.910	1.00	0.00
ATOM	1707	2HB	ASN	112	8.127	-17.158	11.304	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.786	-14.311	12.489	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.007	-14.622	14.175	1.00	0.00
ATOM	1710	N	LYS	113	4.673	-18.746	12.657	1.00	0.00
ATOM	1711	CA	LYS	113	4.392	-19.846	13.562	1.00	0.00
ATOM	1717	C	LYS	113	3.195	-20.656	13.064	1.00	0.00
ATOM	1718	O	LYS	113	2.920	-20.698	11.866	1.00	0.00
ATOM	1712	CB	LYS	113	4.131	-19.319	14.974	1.00	0.00
ATOM	1713	CG	LYS	113	5.313	-19.490	15.914	1.00	0.00
ATOM	1714	CD	LYS	113	5.382	-18.362	16.930	1.00	0.00
ATOM	1715	CE	LYS	113	6.711	-17.626	16.863	1.00	0.00
ATOM	1716	NZ	LYS	113	7.044	-16.964	18.152	1.00	0.00
ATOM	1719	H	LYS	113	3.971	-18.087	12.474	1.00	0.00
ATOM	1720	HA	LYS	113	5.260	-20.488	13.581	1.00	0.00
ATOM	1721	1HB	LYS	113	3.287	-19.848	15.392	1.00	0.00
ATOM	1722	2HB	LYS	113	3.894	-18.268	14.915	1.00	0.00
ATOM	1723	1HG	LYS	113	6.225	-19.497	15.334	1.00	0.00
ATOM	1724	2HG	LYS	113	5.210	-20.428	16.439	1.00	0.00
ATOM	1725	1HD	LYS	113	5.260	-18.776	17.920	1.00	0.00
ATOM	1726	2HD	LYS	113	4.585	-17.662	16.730	1.00	0.00
ATOM	1727	1HE	LYS	113	6.655	-16.878	16.086	1.00	0.00
ATOM	1728	2HE	LYS	113	7.490	-18.335	16.620	1.00	0.00
ATOM	1729	1HZ	LYS	113	8.062	-16.742	18.191	1.00	0.00
ATOM	1730	2HZ	LYS	113	6.808	-17.585	18.945	1.00	0.00
ATOM	1731	3HZ	LYS	113	6.505	-16.070	18.249	1.00	0.00
ATOM	1732	N	GLU	114	2.491	-21.293	13.987	1.00	0.00
ATOM	1733	CA	GLU	114	1.328	-22.103	13.649	1.00	0.00
ATOM	1739	C	GLU	114	0.049	-21.413	14.110	1.00	0.00
ATOM	1740	O	GLU	114	-0.806	-22.023	14.756	1.00	0.00
ATOM	1734	CB	GLU	114	1.452	-23.479	14.306	1.00	0.00
ATOM	1735	CG	GLU	114	2.638	-24.286	13.802	1.00	0.00
ATOM	1736	CD	GLU	114	3.432	-24.929	14.922	1.00	0.00
ATOM	1737	OE1	GLU	114	2.943	-24.956	16.072	1.00	0.00
ATOM	1738	OE2	GLU	114	4.555	-25.405	14.656	1.00	0.00
ATOM	1741	H	GLU	114	2.760	-21.219	14.926	1.00	0.00
ATOM	1742	HA	GLU	114	1.300	-22.222	12.577	1.00	0.00
ATOM	1743	1HB	GLU	114	0.551	-24.043	14.111	1.00	0.00
ATOM	1744	2HB	GLU	114	1.560	-23.348	15.373	1.00	0.00
ATOM	1745	1HG	GLU	114	3.294	-23.627	13.249	1.00	0.00
ATOM	1746	2HG	GLU	114	2.275	-25.064	13.147	1.00	0.00
ATOM	1747	N	MET	115	-0.071	-20.131	13.793	1.00	0.00
ATOM	1748	CA	MET	115	-1.238	-19.355	14.190	1.00	0.00
ATOM	1753	C	MET	115	-1.714	-18.478	13.039	1.00	0.00
ATOM	1754	O	MET	115	-2.126	-17.337	13.245	1.00	0.00
ATOM	1749	CB	MET	115	-0.913	-18.486	15.408	1.00	0.00
ATOM	1750	CG	MET	115	-0.591	-19.278	16.665	1.00	0.00
ATOM	1751	SD	MET	115	1.183	-19.426	16.955	1.00	0.00
ATOM	1752	CE	MET	115	1.252	-20.960	17.878	1.00	0.00
ATOM	1755	H	MET	115	0.648	-19.692	13.287	1.00	0.00
ATOM	1756	HA	MET	115	-2.023	-20.048	14.450	1.00	0.00
ATOM	1757	1HB	MET	115	-1.762	-17.850	15.617	1.00	0.00
ATOM	1758	2HB	MET	115	-0.061	-17.864	15.175	1.00	0.00
ATOM	1759	1HG	MET	115	-1.012	-20.269	16.568	1.00	0.00
ATOM	1760	2HG	MET	115	-1.039	-18.780	17.512	1.00	0.00
ATOM	1761	1HE	MET	115	1.911	-21.652	17.376	1.00	0.00
ATOM	1762	2HE	MET	115	0.262	-21.387	17.943	1.00	0.00
ATOM	1763	3HE	MET	115	1.626	-20.764	18.874	1.00	0.00
ATOM	1764	N	GLU	116	-1.663	-19.023	11.830	1.00	0.00
ATOM	1765	CA	GLU	116	-2.089	-18.297	10.634	1.00	0.00
ATOM	1771	C	GLU	116	-3.550	-17.829	10.731	1.00	0.00
ATOM	1772	O	GLU	116	-3.834	-16.652	10.505	1.00	0.00
ATOM	1766	CB	GLU	116	-1.893	-19.146	9.370	1.00	0.00
ATOM	1767	CG	GLU	116	-0.716	-20.105	9.446	1.00	0.00
ATOM	1768	CD	GLU	116	-1.122	-21.477	9.937	1.00	0.00



ATOM	1769	OE1	GLU	116	-1.278	-21.648	11.161	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.292	-22.390	9.099	1.00	0.00
ATOM	1773	H	GLU	116	-1.329	-19.948	11.736	1.00	0.00
ATOM	1774	HA	GLU	116	-1.463	-17.420	10.555	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.738	-18.486	8.530	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.789	-19.725	9.200	1.00	0.00
ATOM	1777	1HG	GLU	116	0.021	-19.698	10.122	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.286	-20.204	8.461	1.00	0.00
ATOM	1779	N	PRO	117	-4.510	-18.725	11.069	1.00	0.00
ATOM	1780	CA	PRO	117	-5.928	-18.350	11.177	1.00	0.00
ATOM	1784	C	PRO	117	-6.192	-17.334	12.289	1.00	0.00
ATOM	1785	O	PRO	117	-7.275	-16.755	12.369	1.00	0.00
ATOM	1781	CB	PRO	117	-6.639	-19.672	11.496	1.00	0.00
ATOM	1782	CG	PRO	117	-5.671	-20.740	11.124	1.00	0.00
ATOM	1783	CD	PRO	117	-4.310	-20.158	11.355	1.00	0.00
ATOM	1786	HA	PRO	117	-6.301	-17.958	10.243	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.547	-19.743	10.914	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.878	-19.708	12.549	1.00	0.00
ATOM	1789	1HG	PRO	117	-5.795	-21.001	10.083	1.00	0.00
ATOM	1790	2HG	PRO	117	-5.820	-21.606	11.750	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.593	-20.590	10.673	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.002	-20.311	12.380	1.00	0.00
ATOM	1793	N	LEU	118	-5.199	-17.121	13.144	1.00	0.00
ATOM	1794	CA	LEU	118	-5.331	-16.177	14.245	1.00	0.00
ATOM	1799	C	LEU	118	-5.002	-14.757	13.791	1.00	0.00
ATOM	1800	O	LEU	118	-5.458	-13.787	14.393	1.00	0.00
ATOM	1795	CB	LEU	118	-4.421	-16.584	15.408	1.00	0.00
ATOM	1796	CG	LEU	118	-5.085	-17.448	16.479	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.926	-18.924	16.149	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.495	-17.138	17.845	1.00	0.00
ATOM	1801	H	LEU	118	-4.356	-17.609	13.029	1.00	0.00
ATOM	1802	HA	LEU	118	-6.358	-16.203	14.580	1.00	0.00
ATOM	1803	1HB	LEU	118	-4.052	-15.688	15.882	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.579	-17.129	15.005	1.00	0.00
ATOM	1805	HG	LEU	118	-6.141	-17.223	16.511	1.00	0.00
ATOM	1806	1HD1	LEU	118	-3.928	-19.107	15.783	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.645	-19.202	15.392	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.097	-19.512	17.040	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.928	-17.796	18.583	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.712	-16.112	18.106	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.425	-17.282	17.817	1.00	0.00
ATOM	1812	N	VAL	119	-4.212	-14.646	12.725	1.00	0.00
ATOM	1813	CA	VAL	119	-3.814	-13.347	12.181	1.00	0.00
ATOM	1817	C	VAL	119	-5.034	-12.519	11.785	1.00	0.00
ATOM	1818	O	VAL	119	-5.201	-11.383	12.235	1.00	0.00
ATOM	1814	CB	VAL	119	-2.894	-13.514	10.950	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.577	-12.168	10.315	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.615	-14.239	11.332	1.00	0.00
ATOM	1819	H	VAL	119	-3.884	-15.462	12.289	1.00	0.00
ATOM	1820	HA	VAL	119	-3.267	-12.814	12.949	1.00	0.00
ATOM	1821	HB	VAL	119	-3.415	-14.114	10.219	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.407	-11.435	11.090	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.408	-11.855	9.701	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.691	-12.258	9.704	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.764	-13.611	11.110	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.541	-15.158	10.770	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.628	-14.464	12.388	1.00	0.00
ATOM	1828	N	GLY	120	-5.890	-13.099	10.948	1.00	0.00
ATOM	1829	CA	GLY	120	-7.084	-12.401	10.511	1.00	0.00
ATOM	1830	C	GLY	120	-8.001	-12.059	11.668	1.00	0.00
ATOM	1831	O	GLY	120	-8.707	-11.052	11.631	1.00	0.00
ATOM	1832	H	GLY	120	-5.707	-14.006	10.627	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.619	-13.018	9.809	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.793	-11.487	10.016	1.00	0.00
ATOM	1835	N	GLN	121	-7.973	-12.888	12.706	1.00	0.00
ATOM	1836	CA	GLN	121	-8.788	-12.654	13.884	1.00	0.00
ATOM	1842	C	GLN	121	-8.293	-11.418	14.611	1.00	0.00
ATOM	1843	O	GLN	121	-9.053	-10.501	14.858	1.00	0.00
ATOM	1837	CB	GLN	121	-8.754	-13.857	14.821	1.00	0.00
ATOM	1838	CG	GLN	121	-9.499	-15.068	14.292	1.00	0.00
ATOM	1839	CD	GLN	121	-9.385	-16.266	15.213	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.634	-16.171	16.416	1.00	0.00
ATOM	1841	NE2	GLN	121	-8.997	-17.401	14.656	1.00	0.00



ATOM	1844	H	GLN	121	-7.380	-13.660	12.684	1.00	0.00
ATOM	1845	HA	GLN	121	-9.804	-12.484	13.559	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.201	-13.574	15.763	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.729	-14.136	14.993	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.093	-15.333	13.327	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.544	-14.814	14.186	1.00	0.00
ATOM	1850	1HE2	GLN	121	-8.805	-17.402	13.692	1.00	0.00
ATOM	1851	2HE2	GLN	121	-8.926	-18.194	15.224	1.00	0.00
ATOM	1852	N	VAL	122	-7.008	-11.377	14.930	1.00	0.00
ATOM	1853	CA	VAL	122	-6.439	-10.218	15.607	1.00	0.00
ATOM	1857	C	VAL	122	-6.711	-8.959	14.792	1.00	0.00
ATOM	1858	O	VAL	122	-6.962	-7.885	15.341	1.00	0.00
ATOM	1854	CB	VAL	122	-4.916	-10.380	15.825	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.346	-9.188	16.576	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.610	-11.672	16.566	1.00	0.00
ATOM	1859	H	VAL	122	-6.426	-12.133	14.691	1.00	0.00
ATOM	1860	HA	VAL	122	-6.927	-10.116	16.575	1.00	0.00
ATOM	1861	HB	VAL	122	-4.439	-10.429	14.855	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.577	-9.281	17.627	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.784	-8.278	16.190	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.276	-9.155	16.444	1.00	0.00
ATOM	1865	1HG2	VAL	122	-3.593	-11.647	16.930	1.00	0.00
ATOM	1866	2HG2	VAL	122	-4.732	-12.509	15.895	1.00	0.00
ATOM	1867	3HG2	VAL	122	-5.288	-11.777	17.400	1.00	0.00
ATOM	1868	N	GLN	123	-6.696	-9.119	13.476	1.00	0.00
ATOM	1869	CA	GLN	123	-6.969	-8.024	12.565	1.00	0.00
ATOM	1875	C	GLN	123	-8.399	-7.521	12.748	1.00	0.00
ATOM	1876	O	GLN	123	-8.633	-6.313	12.845	1.00	0.00
ATOM	1870	CB	GLN	123	-6.748	-8.476	11.120	1.00	0.00
ATOM	1871	CG	GLN	123	-6.228	-7.380	10.207	1.00	0.00
ATOM	1872	CD	GLN	123	-5.815	-7.914	8.852	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.428	-8.838	8.322	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.768	-7.341	8.283	1.00	0.00
ATOM	1877	H	GLN	123	-6.513	-10.013	13.109	1.00	0.00
ATOM	1878	HA	GLN	123	-6.286	-7.221	12.795	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.685	-8.835	10.718	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.034	-9.287	11.114	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.371	-6.916	10.673	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.005	-6.643	10.067	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.324	-6.613	8.761	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.479	-7.675	7.406	1.00	0.00
ATOM	1885	N	GLU	124	-9.352	-8.448	12.811	1.00	0.00
ATOM	1886	CA	GLU	124	-10.750	-8.081	12.992	1.00	0.00
ATOM	1892	C	GLU	124	-11.014	-7.626	14.426	1.00	0.00
ATOM	1893	O	GLU	124	-11.763	-6.679	14.634	1.00	0.00
ATOM	1887	CB	GLU	124	-11.692	-9.226	12.599	1.00	0.00
ATOM	1888	CG	GLU	124	-11.481	-10.507	13.382	1.00	0.00
ATOM	1889	CD	GLU	124	-12.563	-11.539	13.125	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.604	-11.177	12.531	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.378	-12.714	13.512	1.00	0.00
ATOM	1894	H	GLU	124	-9.110	-9.398	12.736	1.00	0.00
ATOM	1895	HA	GLU	124	-10.944	-7.242	12.339	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.549	-9.445	11.551	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.711	-8.905	12.751	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.463	-10.271	14.436	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.525	-10.925	13.102	1.00	0.00
ATOM	1900	N	TRP	125	-10.379	-8.274	15.414	1.00	0.00
ATOM	1901	CA	TRP	125	-10.562	-7.874	16.811	1.00	0.00
ATOM	1912	C	TRP	125	-10.153	-6.420	16.969	1.00	0.00
ATOM	1913	O	TRP	125	-10.771	-5.650	17.705	1.00	0.00
ATOM	1902	CB	TRP	125	-9.695	-8.700	17.785	1.00	0.00
ATOM	1903	CG	TRP	125	-9.809	-10.196	17.694	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.823	-10.941	17.163	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.835	-11.132	18.171	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.522	-12.280	17.263	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.305	-12.420	17.872	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.601	-10.997	18.814	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.582	-13.569	18.188	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.888	-12.135	19.132	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.376	-13.407	18.812	1.00	0.00
ATOM	1914	H	TRP	125	-9.765	-9.021	15.197	1.00	0.00
ATOM	1915	HA	TRP	125	-11.605	-7.977	17.063	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.939	-8.414	18.793	1.00	0.00



ATOM	1917	2HB	TRP	125	-8.660	-8.454	17.608	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.716	-10.528	16.725	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.093	-13.020	16.945	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.214	-10.023	19.086	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.944	-14.557	17.949	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.930	-12.049	19.625	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.785	-14.270	19.089	1.00	0.00
ATOM	1924	N	MET	126	-9.085	-6.068	16.270	1.00	0.00
ATOM	1925	CA	MET	126	-8.543	-4.717	16.326	1.00	0.00
ATOM	1930	C	MET	126	-9.425	-3.719	15.593	1.00	0.00
ATOM	1931	O	MET	126	-9.834	-2.709	16.166	1.00	0.00
ATOM	1926	CB	MET	126	-7.134	-4.691	15.733	1.00	0.00
ATOM	1927	CG	MET	126	-6.149	-3.842	16.518	1.00	0.00
ATOM	1928	SD	MET	126	-4.434	-4.219	16.105	1.00	0.00
ATOM	1929	CE	MET	126	-4.404	-3.805	14.362	1.00	0.00
ATOM	1932	H	MET	126	-8.637	-6.751	15.707	1.00	0.00
ATOM	1933	HA	MET	126	-8.493	-4.428	17.365	1.00	0.00
ATOM	1934	1HB	MET	126	-7.189	-4.301	14.727	1.00	0.00
ATOM	1935	2HB	MET	126	-6.754	-5.702	15.696	1.00	0.00
ATOM	1936	1HG	MET	126	-6.300	-4.023	17.572	1.00	0.00
ATOM	1937	2HG	MET	126	-6.337	-2.802	16.302	1.00	0.00
ATOM	1938	1HE	MET	126	-3.899	-4.586	13.814	1.00	0.00
ATOM	1939	2HE	MET	126	-3.879	-2.872	14.224	1.00	0.00
ATOM	1940	3HE	MET	126	-5.416	-3.707	13.998	1.00	0.00
ATOM	1941	N	VAL	127	-9.706	-3.988	14.325	1.00	0.00
ATOM	1942	CA	VAL	127	-10.524	-3.081	13.531	1.00	0.00
ATOM	1946	C	VAL	127	-11.941	-2.958	14.099	1.00	0.00
ATOM	1947	O	VAL	127	-12.563	-1.903	13.986	1.00	0.00
ATOM	1943	CB	VAL	127	-10.560	-3.483	12.032	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.582	-4.576	11.761	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.837	-2.264	11.162	1.00	0.00
ATOM	1948	H	VAL	127	-9.345	-4.803	13.913	1.00	0.00
ATOM	1949	HA	VAL	127	-10.060	-2.106	13.594	1.00	0.00
ATOM	1950	HB	VAL	127	-9.584	-3.865	11.764	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.191	-5.526	12.095	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.787	-4.623	10.702	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.496	-4.355	12.293	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.301	-2.579	10.239	1.00	0.00
ATOM	1955	2HG2	VAL	127	-9.909	-1.758	10.944	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.500	-1.590	11.686	1.00	0.00
ATOM	1957	N	GLU	128	-12.439	-4.018	14.738	1.00	0.00
ATOM	1958	CA	GLU	128	-13.770	-3.979	15.329	1.00	0.00
ATOM	1964	C	GLU	128	-13.793	-3.017	16.503	1.00	0.00
ATOM	1965	O	GLU	128	-14.616	-2.101	16.554	1.00	0.00
ATOM	1959	CB	GLU	128	-14.212	-5.371	15.781	1.00	0.00
ATOM	1960	CG	GLU	128	-15.578	-5.773	15.253	1.00	0.00
ATOM	1961	CD	GLU	128	-15.989	-7.162	15.692	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.052	-7.412	16.912	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.266	-8.007	14.815	1.00	0.00
ATOM	1966	H	GLU	128	-11.896	-4.839	14.826	1.00	0.00
ATOM	1967	HA	GLU	128	-14.451	-3.617	14.576	1.00	0.00
ATOM	1968	1HB	GLU	128	-14.245	-5.393	16.861	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.489	-6.096	15.436	1.00	0.00
ATOM	1970	1HG	GLU	128	-15.554	-5.744	14.174	1.00	0.00
ATOM	1971	2HG	GLU	128	-16.310	-5.067	15.615	1.00	0.00
ATOM	1972	N	TYR	129	-12.872	-3.216	17.437	1.00	0.00
ATOM	1973	CA	TYR	129	-12.774	-2.357	18.609	1.00	0.00
ATOM	1982	C	TYR	129	-12.528	-0.911	18.199	1.00	0.00
ATOM	1983	O	TYR	129	-12.976	0.030	18.861	1.00	0.00
ATOM	1974	CB	TYR	129	-11.634	-2.818	19.516	1.00	0.00
ATOM	1975	CG	TYR	129	-11.857	-2.452	20.965	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.754	-3.159	21.756	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.190	-1.374	21.533	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.982	-2.800	23.073	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.406	-1.015	22.848	1.00	0.00
ATOM	1980	CZ	TYR	129	-12.302	-1.728	23.612	1.00	0.00
ATOM	1981	OH	TYR	129	-12.535	-1.349	24.914	1.00	0.00
ATOM	1984	H	TYR	129	-12.235	-3.957	17.332	1.00	0.00
ATOM	1985	HA	TYR	129	-13.706	-2.418	19.150	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.717	-2.346	19.194	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.524	-3.889	19.441	1.00	0.00
ATOM	1988	HD1	TYR	129	-13.282	-4.000	21.329	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.488	-0.817	20.932	1.00	0.00



ATOM	1990	HE1	TYR	129	-13.683	-3.362	23.673	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.874	-0.175	23.271	1.00	0.00
ATOM	1992	HH	TYR	129	-12.638	-2.138	25.479	1.00	0.00
ATOM	1993	N	LEU	130	-11.803	-0.747	17.111	1.00	0.00
ATOM	1994	CA	LEU	130	-11.469	0.573	16.613	1.00	0.00
ATOM	1999	C	LEU	130	-12.667	1.266	15.972	1.00	0.00
ATOM	2000	O	LEU	130	-13.024	2.371	16.361	1.00	0.00
ATOM	1995	CB	LEU	130	-10.331	0.491	15.606	1.00	0.00
ATOM	1996	CG	LEU	130	-9.005	1.070	16.089	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.931	-0.004	16.120	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.586	2.232	15.202	1.00	0.00
ATOM	2001	H	LEU	130	-11.470	-1.544	16.635	1.00	0.00
ATOM	2002	HA	LEU	130	-11.138	1.166	17.455	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.632	1.031	14.724	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.178	-0.546	15.346	1.00	0.00
ATOM	2005	HG	LEU	130	-9.128	1.445	17.095	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.397	-0.978	16.147	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.316	0.126	16.998	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.317	0.076	15.235	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.910	1.875	14.439	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.089	2.982	15.801	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.459	2.662	14.737	1.00	0.00
ATOM	2012	N	GLU	131	-13.271	0.632	14.980	1.00	0.00
ATOM	2013	CA	GLU	131	-14.410	1.222	14.278	1.00	0.00
ATOM	2019	C	GLU	131	-15.590	1.493	15.208	1.00	0.00
ATOM	2020	O	GLU	131	-16.380	2.404	14.963	1.00	0.00
ATOM	2014	CB	GLU	131	-14.846	0.315	13.126	1.00	0.00
ATOM	2015	CG	GLU	131	-13.866	0.309	11.962	1.00	0.00
ATOM	2016	CD	GLU	131	-14.531	0.026	10.631	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.777	0.105	10.550	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.809	-0.276	9.658	1.00	0.00
ATOM	2021	H	GLU	131	-12.935	-0.250	14.693	1.00	0.00
ATOM	2022	HA	GLU	131	-14.080	2.163	13.865	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.805	0.653	12.759	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.944	-0.695	13.493	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.120	-0.451	12.143	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.387	1.274	11.908	1.00	0.00
ATOM	2027	N	THR	132	-15.718	0.700	16.261	1.00	0.00
ATOM	2028	CA	THR	132	-16.824	0.866	17.194	1.00	0.00
ATOM	2032	C	THR	132	-16.548	1.925	18.271	1.00	0.00
ATOM	2033	O	THR	132	-17.465	2.629	18.695	1.00	0.00
ATOM	2029	CB	THR	132	-17.173	-0.469	17.878	1.00	0.00
ATOM	2030	OG1	THR	132	-17.137	-1.539	16.921	1.00	0.00
ATOM	2031	CG2	THR	132	-18.552	-0.407	18.520	1.00	0.00
ATOM	2034	H	THR	132	-15.069	-0.020	16.403	1.00	0.00
ATOM	2035	HA	THR	132	-17.686	1.179	16.624	1.00	0.00
ATOM	2036	HB	THR	132	-16.440	-0.659	18.650	1.00	0.00
ATOM	2037	HG1	THR	132	-16.218	-1.721	16.675	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.892	-1.410	18.734	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.245	0.071	17.843	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.496	0.158	19.438	1.00	0.00
ATOM	2041	N	ARG	133	-15.308	2.026	18.750	1.00	0.00
ATOM	2042	CA	ARG	133	-15.011	2.993	19.809	1.00	0.00
ATOM	2050	C	ARG	133	-13.870	3.949	19.466	1.00	0.00
ATOM	2051	O	ARG	133	-13.977	5.149	19.721	1.00	0.00
ATOM	2043	CB	ARG	133	-14.690	2.272	21.124	1.00	0.00
ATOM	2044	CG	ARG	133	-15.306	0.887	21.255	1.00	0.00
ATOM	2045	CD	ARG	133	-15.084	0.312	22.645	1.00	0.00
ATOM	2046	NE	ARG	133	-15.989	0.899	23.633	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.933	0.648	24.941	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.989	-0.143	25.443	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.817	1.211	25.750	1.00	0.00
ATOM	2052	H	ARG	133	-14.603	1.434	18.414	1.00	0.00
ATOM	2053	HA	ARG	133	-15.903	3.583	19.958	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.044	2.877	21.946	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.618	2.169	21.205	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.852	0.231	20.528	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.368	0.955	21.069	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.064	0.510	22.943	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.247	-0.754	22.610	1.00	0.00
ATOM	2060	HE	ARG	133	-16.690	1.512	23.298	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.300	-0.561	24.841	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.958	-0.329	26.425	1.00	0.00



ATOM	2063	1HH2	ARG	133	-17.521	1.824	25.379	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.790	1.026	26.740	1.00	0.00
ATOM	2065	N	LEU	134	-12.775	3.434	18.919	1.00	0.00
ATOM	2066	CA	LEU	134	-11.628	4.281	18.586	1.00	0.00
ATOM	2071	C	LEU	134	-12.015	5.378	17.600	1.00	0.00
ATOM	2072	O	LEU	134	-11.668	6.543	17.791	1.00	0.00
ATOM	2067	CB	LEU	134	-10.494	3.442	18.006	1.00	0.00
ATOM	2068	CG	LEU	134	-9.303	3.203	18.935	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.638	4.519	19.306	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.736	2.448	20.180	1.00	0.00
ATOM	2073	H	LEU	134	-12.727	2.467	18.743	1.00	0.00
ATOM	2074	HA	LEU	134	-11.287	4.744	19.500	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.132	3.934	17.115	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.897	2.483	17.727	1.00	0.00
ATOM	2077	HG	LEU	134	-8.576	2.597	18.415	1.00	0.00
ATOM	2078	1HD1	LEU	134	-9.378	5.306	19.320	1.00	0.00
ATOM	2079	2HD1	LEU	134	-7.876	4.755	18.576	1.00	0.00
ATOM	2080	3HD1	LEU	134	-8.186	4.433	20.282	1.00	0.00
ATOM	2081	1HD2	LEU	134	-8.864	2.075	20.696	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.370	1.620	19.897	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.282	3.112	20.833	1.00	0.00
ATOM	2084	N	ALA	135	-12.734	4.994	16.549	1.00	0.00
ATOM	2085	CA	ALA	135	-13.175	5.929	15.529	1.00	0.00
ATOM	2087	C	ALA	135	-13.945	7.091	16.141	1.00	0.00
ATOM	2088	O	ALA	135	-13.803	8.229	15.699	1.00	0.00
ATOM	2086	CB	ALA	135	-14.028	5.217	14.489	1.00	0.00
ATOM	2089	H	ALA	135	-12.972	4.046	16.457	1.00	0.00
ATOM	2090	HA	ALA	135	-12.298	6.317	15.033	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.742	4.578	14.986	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.395	4.623	13.850	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.554	5.950	13.893	1.00	0.00
ATOM	2094	N	ASP	136	-14.749	6.806	17.165	1.00	0.00
ATOM	2095	CA	ASP	136	-15.520	7.852	17.826	1.00	0.00
ATOM	2100	C	ASP	136	-14.590	8.830	18.518	1.00	0.00
ATOM	2101	O	ASP	136	-14.718	10.042	18.333	1.00	0.00
ATOM	2096	CB	ASP	136	-16.523	7.267	18.817	1.00	0.00
ATOM	2097	CG	ASP	136	-17.910	7.835	18.606	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.453	7.680	17.492	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.455	8.454	19.544	1.00	0.00
ATOM	2102	H	ASP	136	-14.816	5.879	17.489	1.00	0.00
ATOM	2103	HA	ASP	136	-16.059	8.391	17.060	1.00	0.00
ATOM	2104	1HB	ASP	136	-16.205	7.496	19.824	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.566	6.195	18.691	1.00	0.00
ATOM	2106	N	TRP	137	-13.632	8.308	19.282	1.00	0.00
ATOM	2107	CA	TRP	137	-12.665	9.154	19.957	1.00	0.00
ATOM	2118	C	TRP	137	-11.922	9.991	18.923	1.00	0.00
ATOM	2119	O	TRP	137	-11.814	11.209	19.050	1.00	0.00
ATOM	2108	CB	TRP	137	-11.668	8.300	20.754	1.00	0.00
ATOM	2109	CG	TRP	137	-10.570	9.102	21.393	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.536	9.551	22.677	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.353	9.548	20.783	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.383	10.259	22.900	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.642	10.273	21.753	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.798	9.410	19.508	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.409	10.854	21.487	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.575	9.988	19.247	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.891	10.703	20.231	1.00	0.00
ATOM	2120	H	TRP	137	-13.559	7.331	19.376	1.00	0.00
ATOM	2121	HA	TRP	137	-13.197	9.810	20.627	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.214	7.578	20.091	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.198	7.778	21.537	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.309	9.364	23.400	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.134	10.690	23.745	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.312	8.861	18.731	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.866	11.404	22.236	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.131	9.891	18.266	1.00	0.00
ATOM	2129	HK2	TRP	137	-5.935	11.138	19.984	1.00	0.00
ATOM	2130	N	ILE	138	-11.417	9.313	17.899	1.00	0.00
ATOM	2131	CA	ILE	138	-10.671	9.953	16.825	1.00	0.00
ATOM	2136	C	ILE	138	-11.487	11.061	16.163	1.00	0.00
ATOM	2137	O	ILE	138	-10.997	12.176	15.983	1.00	0.00
ATOM	2132	CB	ILE	138	-10.234	8.909	15.767	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.052	8.093	16.297	1.00	0.00



ATOM	2134	CG2	ILE	138	-9.868	9.573	14.446	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.064	6.647	15.860	1.00	0.00
ATOM	2138	H	ILE	138	-11.548	8.335	17.870	1.00	0.00
ATOM	2139	HA	ILE	138	-9.781	10.388	17.256	1.00	0.00
ATOM	2140	HB	ILE	138	-11.065	8.244	15.588	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.066	8.115	17.377	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.132	8.537	15.945	1.00	0.00
ATOM	2143	1HG2	ILE	138	-8.989	10.185	14.582	1.00	0.00
ATOM	2144	2HG2	ILR	138	-10.688	10.192	14.114	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.666	8.813	13.705	1.00	0.00
ATOM	2146	1HD1	ILE	138	-9.721	6.081	16.503	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.064	6.243	15.921	1.00	0.00
ATOM	2148	3HD1	ILE	138	-9.415	6.582	14.840	1.00	0.00
ATOM	2149	N	HIS	139	-12.727	10.746	15.811	1.00	0.00
ATOM	2150	CA	HIS	139	-13.622	11.703	15.162	1.00	0.00
ATOM	2157	C	HIS	139	-13.878	12.922	16.040	1.00	0.00
ATOM	2158	O	HIS	139	-14.044	14.032	15.535	1.00	0.00
ATOM	2151	CB	HIS	139	-14.951	11.029	14.809	1.00	0.00
ATOM	2152	CG	HIS	139	-14.888	10.198	13.565	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.635	9.055	13.382	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.147	10.343	12.443	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.357	8.535	12.201	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.455	9.299	11.608	1.00	0.00
ATOM	2159	H	HIS	139	-13.056	9.833	15.991	1.00	0.00
ATOM	2160	HA	HIS	139	-13.147	12.030	14.249	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.706	11.789	14.663	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.250	10.384	15.622	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.276	8.669	14.034	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.439	11.136	12.245	1.00	0.00
ATOM	2165	HE1	HIS	139	-15.797	7.638	11.787	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.268	9.284	10.636	1.00	0.00
ATOM	2167	N	SER	140	-13.922	12.714	17.347	1.00	0.00
ATOM	2168	CA	SER	140	-14.179	13.805	18.279	1.00	0.00
ATOM	2171	C	SER	140	-12.902	14.550	18.667	1.00	0.00
ATOM	2172	O	SER	140	-12.961	15.656	19.208	1.00	0.00
ATOM	2169	CB	SER	140	-14.885	13.263	19.523	1.00	0.00
ATOM	2170	OG	SER	140	-15.872	12.303	19.171	1.00	0.00
ATOM	2173	H	SER	140	-13.795	11.802	17.696	1.00	0.00
ATOM	2174	HA	SER	140	-14.834	14.499	17.783	1.00	0.00
ATOM	2175	1HB	SER	140	-15.362	14.075	20.050	1.00	0.00
ATOM	2176	2HB	SER	140	-14.160	12.789	20.166	1.00	0.00
ATOM	2177	HG	SER	140	-15.438	11.486	18.889	1.00	0.00
ATOM	2178	N	SER	141	-11.752	13.946	18.406	1.00	0.00
ATOM	2179	CA	SER	141	-10.478	14.564	18.747	1.00	0.00
ATOM	2182	C	SER	141	-10.013	15.515	17.653	1.00	0.00
ATOM	2183	O	SER	141	-9.810	16.706	17.893	1.00	0.00
ATOM	2180	CB	SER	141	-9.417	13.488	19.000	1.00	0.00
ATOM	2181	OG	SER	141	-8.829	13.641	20.280	1.00	0.00
ATOM	2184	H	SER	141	-11.759	13.059	17.987	1.00	0.00
ATOM	2185	HA	SER	141	-10.621	15.126	19.647	1.00	0.00
ATOM	2186	1HB	SER	141	-8.642	13.566	18.250	1.00	0.00
ATOM	2187	2HB	SER	141	-9.875	12.511	18.945	1.00	0.00
ATOM	2188	HG	SER	141	-7.967	14.060	20.183	1.00	0.00
ATOM	2189	N	GLY	142	-9.850	14.979	16.459	1.00	0.00
ATOM	2190	CA	GLY	142	-9.400	15.777	15.332	1.00	0.00
ATOM	2191	C	GLY	142	-9.406	14.980	14.052	1.00	0.00
ATOM	2192	O	GLY	142	-9.157	15.506	12.968	1.00	0.00
ATOM	2193	H	GLY	142	-10.036	14.028	16.340	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.396	16.126	15.523	1.00	0.00
ATOM	2195	2HA	GLY	142	-10.050	16.627	15.218	1.00	0.00
ATOM	2196	N	GLY	143	-9.702	13.701	14.186	1.00	0.00
ATOM	2197	CA	GLY	143	-9.751	12.827	13.039	1.00	0.00
ATOM	2198	C	GLY	143	-8.410	12.252	12.683	1.00	0.00
ATOM	2199	O	GLY	143	-7.385	12.656	13.230	1.00	0.00
ATOM	2200	H	GLY	143	-9.899	13.344	15.080	1.00	0.00
ATOM	2201	1HA	GLY	143	-10.122	13.378	12.197	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.421	12.020	13.247	1.00	0.00
ATOM	2203	N	TRP	144	-8.415	11.312	11.751	1.00	0.00
ATOM	2204	CA	TRP	144	-7.185	10.683	11.305	1.00	0.00
ATOM	2215	C	TRP	144	-6.278	11.728	10.672	1.00	0.00
ATOM	2216	O	TRP	144	-5.055	11.603	10.689	1.00	0.00
ATOM	2205	CB	TRP	144	-7.494	9.552	10.325	1.00	0.00
ATOM	2206	CG	TRP	144	-8.047	8.336	11.012	1.00	0.00



ATOM	2207	CD1 TRP	144	-9.364	7.985	11.142	1.00	0.00
ATOM	2208	CD2 TRP	144	-7.292	7.322	11.685	1.00	0.00
ATOM	2209	NE1 TRP	144	-9.470	6.811	11.857	1.00	0.00
ATOM	2210	CE2 TRP	144	-8.212	6.385	12.195	1.00	0.00
ATOM	2211	CE3 TRP	144	-5.926	7.114	11.902	1.00	0.00
ATOM	2212	CZ2 TRP	144	-7.809	5.261	12.910	1.00	0.00
ATOM	2213	CZ3 TRP	144	-5.529	5.996	12.611	1.00	0.00
ATOM	2214	CH2 TRP	144	-6.468	5.083	13.107	1.00	0.00
ATOM	2217	H TRP	144	-9.268	11.040	11.346	1.00	0.00
ATOM	2218	HA TRP	144	-6.690	10.273	12.173	1.00	0.00
ATOM	2219	1HB TRP	144	-6.586	9.266	9.815	1.00	0.00
ATOM	2220	2HB TRP	144	-8.220	9.894	9.601	1.00	0.00
ATOM	2221	HD1 TRP	144	-10.190	8.555	10.744	1.00	0.00
ATOM	2222	HE1 TRP	144	-10.312	6.352	12.084	1.00	0.00
ATOM	2223	HE3 TRP	144	-5.188	7.807	11.526	1.00	0.00
ATOM	2224	HZ2 TRP	144	-8.519	4.544	13.298	1.00	0.00
ATOM	2225	HZ3 TRP	144	-4.474	5.814	12.787	1.00	0.00
ATOM	2226	HH2 TRP	144	-6.112	4.223	13.656	1.00	0.00
ATOM	2227	N ALA	145	-6.896	12.783	10.147	1.00	0.00
ATOM	2228	CA ALA	145	-6.163	13.878	9.536	1.00	0.00
ATOM	2230	C ALA	145	-5.302	14.590	10.577	1.00	0.00
ATOM	2231	O ALA	145	-4.183	15.013	10.280	1.00	0.00
ATOM	2229	CB ALA	145	-7.123	14.856	8.876	1.00	0.00
ATOM	2232	H ALA	145	-7.872	12.830	10.193	1.00	0.00
ATOM	2233	HA ALA	145	-5.523	13.464	8.772	1.00	0.00
ATOM	2234	1HB ALA	145	-6.748	15.125	7.898	1.00	0.00
ATOM	2235	2HB ALA	145	-7.209	15.743	9.484	1.00	0.00
ATOM	2236	3HB ALA	145	-8.093	14.393	8.774	1.00	0.00
ATOM	2237	N GLU	146	-5.816	14.694	11.807	1.00	0.00
ATOM	2238	CA GLU	146	-5.066	15.333	12.886	1.00	0.00
ATOM	2244	C GLU	146	-3.801	14.523	13.165	1.00	0.00
ATOM	2245	O GLU	146	-2.706	15.073	13.302	1.00	0.00
ATOM	2239	CB GLU	146	-5.935	15.465	14.153	1.00	0.00
ATOM	2240	CG GLU	146	-5.158	15.433	15.461	1.00	0.00
ATOM	2241	CD GLU	146	-5.928	16.058	16.609	1.00	0.00
ATOM	2242	OE1 GLU	146	-6.631	17.063	16.375	1.00	0.00
ATOM	2243	OE2 GLU	146	-5.839	15.541	17.745	1.00	0.00
ATOM	2246	H GLU	146	-6.710	14.313	11.996	1.00	0.00
ATOM	2247	HA GLU	146	-4.778	16.319	12.548	1.00	0.00
ATOM	2248	1HB GLU	146	-6.661	14.664	14.169	1.00	0.00
ATOM	2249	2HB GLU	146	-6.463	16.404	14.109	1.00	0.00
ATOM	2250	1HG GLU	146	-4.233	15.977	15.330	1.00	0.00
ATOM	2251	2HG GLU	146	-4.939	14.406	15.712	1.00	0.00
ATOM	2252	N PHE	147	-3.965	13.209	13.209	1.00	0.00
ATOM	2253	CA PHE	147	-2.857	12.289	13.442	1.00	0.00
ATOM	2261	C PHE	147	-1.852	12.350	12.289	1.00	0.00
ATOM	2262	O PHE	147	-0.643	12.249	12.503	1.00	0.00
ATOM	2254	CB PHE	147	-3.404	10.866	13.604	1.00	0.00
ATOM	2255	CG PHE	147	-2.362	9.825	13.892	1.00	0.00
ATOM	2256	CD1 PHE	147	-1.311	10.087	14.755	1.00	0.00
ATOM	2257	CD2 PHE	147	-2.437	8.580	13.291	1.00	0.00
ATOM	2258	CE1 PHE	147	-0.354	9.126	15.010	1.00	0.00
ATOM	2259	CE2 PHE	147	-1.482	7.616	13.542	1.00	0.00
ATOM	2260	CZ PHE	147	-0.439	7.890	14.402	1.00	0.00
ATOM	2263	H PHE	147	-4.862	12.842	13.066	1.00	0.00
ATOM	2264	HA PHE	147	-2.357	12.586	14.355	1.00	0.00
ATOM	2265	1HB PHE	147	-3.913	10.582	12.693	1.00	0.00
ATOM	2266	2HB PHE	147	-4.112	10.855	14.419	1.00	0.00
ATOM	2267	HD1 PHE	147	-3.252	8.365	12.617	1.00	0.00
ATOM	2268	HD2 PHE	147	-1.244	11.054	15.232	1.00	0.00
ATOM	2269	HE1 PHE	147	-1.553	6.649	13.067	1.00	0.00
ATOM	2270	HE2 PHE	147	0.463	9.341	15.684	1.00	0.00
ATOM	2271	HZ PHE	147	0.314	7.140	14.596	1.00	0.00
ATOM	2272	N THR	148	-2.352	12.522	11.070	1.00	0.00
ATOM	2273	CA THR	148	-1.489	12.599	9.893	1.00	0.00
ATOM	2277	C THR	148	-0.619	13.851	9.928	1.00	0.00
ATOM	2278	O THR	148	0.478	13.870	9.381	1.00	0.00
ATOM	2274	CB THR	148	-2.307	12.560	8.588	1.00	0.00
ATOM	2275	OG1 THR	148	-3.343	11.582	8.705	1.00	0.00
ATOM	2276	CG2 THR	148	-1.424	12.209	7.397	1.00	0.00
ATOM	2279	H THR	148	-3.323	12.600	10.958	1.00	0.00
ATOM	2280	HA THR	148	-0.842	11.732	9.908	1.00	0.00
ATOM	2281	HB THR	148	-2.749	13.530	8.422	1.00	0.00



ATOM	2282	HG1	THR	148	-3.947	11.827	9.416	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.479	12.999	6.663	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.766	11.283	6.955	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.401	12.094	7.727	1.00	0.00
ATOM	2286	N	ALA	149	-1.097	14.888	10.596	1.00	0.00
ATOM	2287	CA	ALA	149	-0.330	16.116	10.713	1.00	0.00
ATOM	2289	C	ALA	149	0.635	16.008	11.885	1.00	0.00
ATOM	2290	O	ALA	149	1.698	16.621	11.894	1.00	0.00
ATOM	2288	CB	ALA	149	-1.254	17.314	10.879	1.00	0.00
ATOM	2291	H	ALA	149	-1.976	14.821	11.031	1.00	0.00
ATOM	2292	HA	ALA	149	0.239	16.244	9.803	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.143	17.719	11.874	1.00	0.00
ATOM	2294	2HB	ALA	149	-2.278	17.002	10.729	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.998	18.071	10.153	1.00	0.00
ATOM	2296	N	LEU	150	0.249	15.210	12.870	1.00	0.00
ATOM	2297	CA	LEU	150	1.059	14.997	14.059	1.00	0.00
ATOM	2302	C	LEU	150	2.284	14.146	13.750	1.00	0.00
ATOM	2303	O	LEU	150	3.382	14.422	14.237	1.00	0.00
ATOM	2298	CB	LEU	150	0.221	14.314	15.140	1.00	0.00
ATOM	2299	CG	LEU	150	-0.262	15.229	16.262	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.722	14.958	16.583	1.00	0.00
ATOM	2301	CD2	LEU	150	0.599	15.048	17.502	1.00	0.00
ATOM	2304	H	LEU	150	-0.614	14.749	12.795	1.00	0.00
ATOM	2305	HA	LEU	150	1.383	15.961	14.422	1.00	0.00
ATOM	2306	1HB	LEU	150	0.807	13.526	15.579	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.638	13.870	14.668	1.00	0.00
ATOM	2308	HG	LEU	150	-0.175	16.255	15.941	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.120	14.247	15.873	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.282	15.880	16.521	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.803	14.553	17.581	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.575	14.012	17.808	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.216	15.668	18.299	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.616	15.333	17.279	1.00	0.00
ATOM	2315	N	TYR	151	2.090	13.097	12.961	1.00	0.00
ATOM	2316	CA	TYR	151	3.179	12.193	12.616	1.00	0.00
ATOM	2325	C	TYR	151	3.442	12.166	11.118	1.00	0.00
ATOM	2326	O	TYR	151	3.956	11.182	10.592	1.00	0.00
ATOM	2317	CB	TYR	151	2.859	10.779	13.106	1.00	0.00
ATOM	2318	CG	TYR	151	3.347	10.502	14.505	1.00	0.00
ATOM	2319	CD1	TYR	151	2.545	10.769	15.605	1.00	0.00
ATOM	2320	CD2	TYR	151	4.615	9.982	14.728	1.00	0.00
ATOM	2321	CE1	TYR	151	2.988	10.521	16.887	1.00	0.00
ATOM	2322	CE2	TYR	151	5.068	9.733	16.008	1.00	0.00
ATOM	2323	CZ	TYR	151	4.251	10.005	17.084	1.00	0.00
ATOM	2324	OH	TYR	151	4.704	9.773	18.363	1.00	0.00
ATOM	2327	H	TYR	151	1.187	12.915	12.617	1.00	0.00
ATOM	2328	HA	TYR	151	4.068	12.542	13.119	1.00	0.00
ATOM	2329	1HB	TYR	151	3.320	10.062	12.442	1.00	0.00
ATOM	2330	2HB	TYR	151	1.789	10.636	13.094	1.00	0.00
ATOM	2331	HD1	TYR	151	5.250	9.768	13.882	1.00	0.00
ATOM	2332	HD2	TYR	151	1.555	11.172	15.445	1.00	0.00
ATOM	2333	HE1	TYR	151	6.057	9.326	16.161	1.00	0.00
ATOM	2334	HE2	TYR	151	2.347	10.736	17.731	1.00	0.00
ATOM	2335	HH	TYR	151	5.022	8.867	18.430	1.00	0.00
ATOM	2336	N	GLY	152	3.094	13.238	10.426	1.00	0.00
ATOM	2337	CA	GLY	152	3.317	13.276	9.002	1.00	0.00
ATOM	2338	C	GLY	152	4.416	14.235	8.616	1.00	0.00
ATOM	2339	O	GLY	152	5.418	14.368	9.319	1.00	0.00
ATOM	2340	H	GLY	152	2.685	14.004	10.877	1.00	0.00
ATOM	2341	1HA	GLY	152	2.403	13.579	8.514	1.00	0.00
ATOM	2342	2HA	GLY	152	3.583	12.285	8.663	1.00	0.00
ATOM	2343	N	ASP	153	4.225	14.900	7.494	1.00	0.00
ATOM	2344	CA	ASP	153	5.205	15.858	6.990	1.00	0.00
ATOM	2349	C	ASP	153	4.993	17.223	7.625	1.00	0.00
ATOM	2350	O	ASP	153	5.905	18.043	7.693	1.00	0.00
ATOM	2345	CB	ASP	153	5.115	15.965	5.468	1.00	0.00
ATOM	2346	CG	ASP	153	6.428	15.633	4.788	1.00	0.00
ATOM	2347	OD1	ASP	153	7.434	16.322	5.052	1.00	0.00
ATOM	2348	OD2	ASP	153	6.461	14.681	3.982	1.00	0.00
ATOM	2351	H	ASP	153	3.405	14.742	6.989	1.00	0.00
ATOM	2352	HA	ASP	153	6.187	15.498	7.260	1.00	0.00
ATOM	2353	1HB	ASP	153	4.834	16.973	5.200	1.00	0.00
ATOM	2354	2HB	ASP	153	4.362	15.279	5.110	1.00	0.00



ATOM	2355	N	GLY	154	3.781	17.454	8.109	1.00	0.00
ATOM	2356	CA	GLY	154	3.466	18.713	8.750	1.00	0.00
ATOM	2357	C	GLY	154	3.619	18.627	10.252	1.00	0.00
ATOM	2358	O	GLY	154	2.888	19.275	10.999	1.00	0.00
ATOM	2359	H	GLY	154	3.098	16.759	8.041	1.00	0.00
ATOM	2360	1HA	GLY	154	2.446	18.982	8.516	1.00	0.00
ATOM	2361	2HA	GLY	154	4.128	19.478	8.369	1.00	0.00
ATOM	2362	N	ALA	155	4.579	17.820	10.690	1.00	0.00
ATOM	2363	CA	ALA	155	4.846	17.629	12.104	1.00	0.00
ATOM	2365	C	ALA	155	5.641	18.799	12.663	1.00	0.00
ATOM	2366	O	ALA	155	6.826	18.672	12.982	1.00	0.00
ATOM	2364	CB	ALA	155	5.589	16.319	12.332	1.00	0.00
ATOM	2367	H	ALA	155	5.124	17.342	10.038	1.00	0.00
ATOM	2368	HA	ALA	155	3.899	17.572	12.619	1.00	0.00
ATOM	2369	1HB	ALA	155	4.892	15.562	12.657	1.00	0.00
ATOM	2370	2HB	ALA	155	6.346	16.461	13.088	1.00	0.00
ATOM	2371	3HB	ALA	155	6.055	16.005	11.409	1.00	0.00
ATOM	2372	N	LEU	156	4.973	19.939	12.766	1.00	0.00
ATOM	2373	CA	LEU	156	5.579	21.153	13.273	1.00	0.00
ATOM	2378	C	LEU	156	6.001	20.991	14.727	1.00	0.00
ATOM	2379	O	LEU	156	5.670	19.998	15.379	1.00	0.00
ATOM	2374	CB	LEU	156	4.604	22.323	13.134	1.00	0.00
ATOM	2375	CG	LEU	156	3.272	22.175	13.875	1.00	0.00
ATOM	2376	CD1	LEU	156	2.859	23.503	14.485	1.00	0.00
ATOM	2377	CD2	LEU	156	2.186	21.667	12.940	1.00	0.00
ATOM	2380	H	LEU	156	4.038	19.964	12.478	1.00	0.00
ATOM	2381	HA	LEU	156	6.455	21.357	12.677	1.00	0.00
ATOM	2382	1HB	LEU	156	4.394	22.465	12.090	1.00	0.00
ATOM	2383	2HB	LEU	156	5.094	23.203	13.502	1.00	0.00
ATOM	2384	HG	LEU	156	3.390	21.460	14.677	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.962	23.451	15.559	1.00	0.00
ATOM	2386	2HD1	LEU	156	1.830	23.709	14.232	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.491	24.288	14.100	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.637	21.307	12.026	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.502	22.470	12.711	1.00	0.00
ATOM	2390	3HD2	LEU	156	1.648	20.861	13.417	1.00	0.00
ATOM	2391	N	GLU	157	6.739	21.974	15.225	1.00	0.00
ATOM	2392	CA	GLU	157	7.233	21.960	16.597	1.00	0.00
ATOM	2398	C	GLU	157	6.114	21.737	17.612	1.00	0.00
ATOM	2399	O	GLU	157	6.314	21.063	18.622	1.00	0.00
ATOM	2393	CB	GLU	157	7.972	23.263	16.905	1.00	0.00
ATOM	2394	CG	GLU	157	9.468	23.073	17.104	1.00	0.00
ATOM	2395	CD	GLU	157	9.787	21.921	18.036	1.00	0.00
ATOM	2396	OE1	GLU	157	9.446	22.012	19.232	1.00	0.00
ATOM	2397	OE2	GLU	157	10.373	20.921	17.575	1.00	0.00
ATOM	2400	H	GLU	157	6.967	22.731	14.646	1.00	0.00
ATOM	2401	HA	GLU	157	7.934	21.142	16.680	1.00	0.00
ATOM	2402	1HB	GLU	157	7.562	23.693	17.806	1.00	0.00
ATOM	2403	2HB	GLU	157	7.823	23.950	16.086	1.00	0.00
ATOM	2404	1HG	GLU	157	9.882	23.981	17.522	1.00	0.00
ATOM	2405	2HG	GLU	157	9.924	22.877	16.145	1.00	0.00
ATOM	2406	N	GLU	158	4.936	22.286	17.341	1.00	0.00
ATOM	2407	CA	GLU	158	3.806	22.122	18.249	1.00	0.00
ATOM	2413	C	GLU	158	3.331	20.677	18.261	1.00	0.00
ATOM	2414	O	GLU	158	3.003	20.134	19.309	1.00	0.00
ATOM	2408	CB	GLU	158	2.650	23.043	17.863	1.00	0.00
ATOM	2409	CG	GLU	158	2.896	24.503	18.197	1.00	0.00
ATOM	2410	CD	GLU	158	1.643	25.346	18.077	1.00	0.00
ATOM	2411	OE1	GLU	158	1.048	25.387	16.978	1.00	0.00
ATOM	2412	OE2	GLU	158	1.256	25.985	19.075	1.00	0.00
ATOM	2415	H	GLU	158	4.823	22.806	16.515	1.00	0.00
ATOM	2416	HA	GLU	158	4.142	22.382	19.242	1.00	0.00
ATOM	2417	1HB	GLU	158	1.761	22.721	18.386	1.00	0.00
ATOM	2418	2HB	GLU	158	2.480	22.961	16.799	1.00	0.00
ATOM	2419	1HG	GLU	158	3.642	24.894	17.519	1.00	0.00
ATOM	2420	2HG	GLU	158	3.261	24.570	19.211	1.00	0.00
ATOM	2421	N	ALA	159	3.307	20.058	17.089	1.00	0.00
ATOM	2422	CA	ALA	159	2.875	18.673	16.965	1.00	0.00
ATOM	2424	C	ALA	159	3.891	17.728	17.597	1.00	0.00
ATOM	2425	O	ALA	159	3.525	16.721	18.202	1.00	0.00
ATOM	2423	CB	ALA	159	2.653	18.314	15.502	1.00	0.00
ATOM	2426	H	ALA	159	3.592	20.542	16.287	1.00	0.00
ATOM	2427	HA	ALA	159	1.932	18.573	17.482	1.00	0.00



ATOM	2428	1HB	ALA	159	2.481	17.251	15.412	1.00	0.00
ATOM	2429	2HB	ALA	159	3.526	18.587	14.927	1.00	0.00
ATOM	2430	3HB	ALA	159	1.793	18.849	15.127	1.00	0.00
ATOM	2431	N	ARG	160	5.168	18.064	17.454	1.00	0.00
ATOM	2432	CA	ARG	160	6.252	17.256	18.004	1.00	0.00
ATOM	2440	C	ARG	160	6.139	17.139	19.519	1.00	0.00
ATOM	2441	O	ARG	160	6.068	16.037	20.063	1.00	0.00
ATOM	2433	CB	ARG	160	7.602	17.863	17.629	1.00	0.00
ATOM	2434	CG	ARG	160	7.894	17.805	16.143	1.00	0.00
ATOM	2435	CD	ARG	160	9.342	17.451	15.883	1.00	0.00
ATOM	2436	NE	ARG	160	10.229	18.586	16.116	1.00	0.00
ATOM	2437	CZ	ARG	160	11.276	18.875	15.355	1.00	0.00
ATOM	2438	NH1	ARG	160	11.512	18.170	14.255	1.00	0.00
ATOM	2439	NH2	ARG	160	12.057	19.894	15.680	1.00	0.00
ATOM	2442	H	ARG	160	5.388	18.883	16.960	1.00	0.00
ATOM	2443	HA	ARG	160	6.180	16.270	17.574	1.00	0.00
ATOM	2444	1HB	ARG	160	8.382	17.326	18.148	1.00	0.00
ATOM	2445	2HB	ARG	160	7.618	18.896	17.939	1.00	0.00
ATOM	2446	1HG	ARG	160	7.683	18.770	15.705	1.00	0.00
ATOM	2447	2HG	ARG	160	7.264	17.055	15.689	1.00	0.00
ATOM	2448	1HD	ARG	160	9.445	17.133	14.856	1.00	0.00
ATOM	2449	2HD	ARG	160	9.627	16.643	16.540	1.00	0.00
ATOM	2450	HE	ARG	160	10.041	19.160	16.903	1.00	0.00
ATOM	2451	1HH1	ARG	160	10.896	17.420	13.993	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.304	18.384	13.671	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.842	20.445	16.499	1.00	0.00
ATOM	2454	2HH2	ARG	160	12.866	20.114	15.124	1.00	0.00
ATOM	2455	N	ARG	161	6.111	18.278	20.193	1.00	0.00
ATOM	2456	CA	ARG	161	5.998	18.295	21.646	1.00	0.00
ATOM	2464	C	ARG	161	4.634	17.780	22.086	1.00	0.00
ATOM	2465	O	ARG	161	4.471	17.304	23.210	1.00	0.00
ATOM	2457	CB	ARG	161	6.233	19.701	22.191	1.00	0.00
ATOM	2458	CG	ARG	161	5.345	20.754	21.562	1.00	0.00
ATOM	2459	CD	ARG	161	5.874	22.154	21.823	1.00	0.00
ATOM	2460	NE	ARG	161	7.266	22.302	21.392	1.00	0.00
ATOM	2461	CZ	ARG	161	8.255	22.719	22.185	1.00	0.00
ATOM	2462	NH1	ARG	161	8.009	23.036	23.450	1.00	0.00
ATOM	2463	NH2	ARG	161	9.485	22.816	21.707	1.00	0.00
ATOM	2466	H	ARG	161	6.167	19.129	19.705	1.00	0.00
ATOM	2467	HA	ARG	161	6.754	17.642	22.041	1.00	0.00
ATOM	2468	1HB	ARG	161	7.262	19.976	22.015	1.00	0.00
ATOM	2469	2HB	ARG	161	6.049	19.695	23.256	1.00	0.00
ATOM	2470	1HG	ARG	161	4.356	20.663	21.978	1.00	0.00
ATOM	2471	2HG	ARG	161	5.306	20.588	20.495	1.00	0.00
ATOM	2472	1HD	ARG	161	5.811	22.356	22.882	1.00	0.00
ATOM	2473	2HD	ARG	161	5.262	22.863	21.284	1.00	0.00
ATOM	2474	HE	ARG	161	7.478	22.069	20.456	1.00	0.00
ATOM	2475	1HH1	ARG	161	7.082	22.966	23.815	1.00	0.00
ATOM	2476	2HH1	ARG	161	8.761	23.338	24.052	1.00	0.00
ATOM	2477	1HH2	ARG	161	9.674	22.570	20.741	1.00	0.00
ATOM	2478	2HH2	ARG	161	10.240	23.137	22.297	1.00	0.00
ATOM	2479	N	LEU	162	3.655	17.876	21.195	1.00	0.00
ATOM	2480	CA	LEU	162	2.308	17.421	21.495	1.00	0.00
ATOM	2485	C	LEU	162	2.243	15.906	21.568	1.00	0.00
ATOM	2486	O	LEU	162	1.677	15.363	22.506	1.00	0.00
ATOM	2481	CB	LEU	162	1.313	17.934	20.450	1.00	0.00
ATOM	2482	CG	LEU	162	-0.036	18.393	21.007	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.374	19.787	20.505	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.131	17.407	20.629	1.00	0.00
ATOM	2487	H	LEU	162	3.845	18.264	20.316	1.00	0.00
ATOM	2488	HA	LEU	162	2.038	17.821	22.461	1.00	0.00
ATOM	2489	1HB	LEU	162	1.133	17.143	19.738	1.00	0.00
ATOM	2490	2HB	LEU	162	1.767	18.766	19.932	1.00	0.00
ATOM	2491	HG	LEU	162	0.022	18.432	22.085	1.00	0.00
ATOM	2492	1HD1	LEU	162	-1.279	19.749	19.916	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.437	20.157	19.893	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.519	20.449	21.347	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.109	16.567	21.308	1.00	0.00
ATOM	2496	2HD2	LEU	162	-0.968	17.058	19.620	1.00	0.00
ATOM	2497	3HD2	LEU	162	-2.092	17.894	20.691	1.00	0.00
ATOM	2498	N	ARG	163	2.811	15.219	20.580	1.00	0.00
ATOM	2499	CA	ARG	163	2.776	13.757	20.576	1.00	0.00
ATOM	2507	C	ARG	163	3.603	13.180	21.719	1.00	0.00



ATOM	2508	O	ARG	163	3.217	12.178	22.319	1.00	0.00
ATOM	2500	CB	ARG	163	3.239	13.176	19.234	1.00	0.00
ATOM	2501	CG	ARG	163	4.508	13.790	18.672	1.00	0.00
ATOM	2502	CD	ARG	163	4.482	13.794	17.150	1.00	0.00
ATOM	2503	NE	ARG	163	5.815	13.938	16.554	1.00	0.00
ATOM	2504	CZ	ARG	163	6.824	13.066	16.698	1.00	0.00
ATOM	2505	NH1	ARG	163	6.698	11.993	17.477	1.00	0.00
ATOM	2506	NH2	ARG	163	7.966	13.273	16.055	1.00	0.00
ATOM	2509	H	ARG	163	3.249	15.701	19.841	1.00	0.00
ATOM	2510	HA	ARG	163	1.747	13.469	20.733	1.00	0.00
ATOM	2511	1HB	ARG	163	2.449	13.316	18.509	1.00	0.00
ATOM	2512	2HB	ARG	163	3.409	12.117	19.359	1.00	0.00
ATOM	2513	1HG	ARG	163	5.356	13.214	19.008	1.00	0.00
ATOM	2514	2HG	ARG	163	4.594	14.807	19.026	1.00	0.00
ATOM	2515	1HD	ARG	163	3.866	14.620	16.823	1.00	0.00
ATOM	2516	2HD	ARG	163	4.041	12.870	16.806	1.00	0.00
ATOM	2517	HE	ARG	163	5.958	14.726	15.985	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.845	11.821	17.972	1.00	0.00
ATOM	2519	2HH1	ARG	163	7.465	11.331	17.564	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.077	14.073	15.467	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.733	12.618	16.155	1.00	0.00
ATOM	2522	N	GLU	164	4.725	13.817	22.031	1.00	0.00
ATOM	2523	CA	GLU	164	5.575	13.348	23.117	1.00	0.00
ATOM	2529	C	GLU	164	4.896	13.588	24.462	1.00	0.00
ATOM	2530	O	GLU	164	4.867	12.705	25.324	1.00	0.00
ATOM	2524	CB	GLU	164	6.944	14.026	23.065	1.00	0.00
ATOM	2525	CG	GLU	164	7.996	13.185	22.357	1.00	0.00
ATOM	2526	CD	GLU	164	9.349	13.246	23.031	1.00	0.00
ATOM	2527	OE1	GLU	164	9.745	14.340	23.483	1.00	0.00
ATOM	2528	OE2	GLU	164	10.026	12.200	23.103	1.00	0.00
ATOM	2531	H	GLU	164	4.983	14.620	21.527	1.00	0.00
ATOM	2532	HA	GLU	164	5.709	12.284	22.987	1.00	0.00
ATOM	2533	1HB	GLU	164	7.280	14.214	24.073	1.00	0.00
ATOM	2534	2HB	GLU	164	6.850	14.967	22.542	1.00	0.00
ATOM	2535	1HG	GLU	164	8.099	13.540	21.342	1.00	0.00
ATOM	2536	2HG	GLU	164	7.668	12.153	22.344	1.00	0.00
ATOM	2537	N	GLY	165	4.315	14.773	24.632	1.00	0.00
ATOM	2538	CA	GLY	165	3.617	15.075	25.866	1.00	0.00
ATOM	2539	C	GLY	165	2.346	14.257	25.970	1.00	0.00
ATOM	2540	O	GLY	165	1.857	13.964	27.061	1.00	0.00
ATOM	2541	H	GLY	165	4.340	15.441	23.905	1.00	0.00
ATOM	2542	1HA	GLY	165	3.366	16.125	25.888	1.00	0.00
ATOM	2543	2HA	GLY	165	4.259	14.843	26.703	1.00	0.00
ATOM	2544	N	ASN	166	1.835	13.881	24.805	1.00	0.00
ATOM	2545	CA	ASN	166	0.626	13.080	24.679	1.00	0.00
ATOM	2550	C	ASN	166	0.784	11.738	25.373	1.00	0.00
ATOM	2551	O	ASN	166	0.105	11.457	26.364	1.00	0.00
ATOM	2546	CB	ASN	166	0.325	12.844	23.197	1.00	0.00
ATOM	2547	CG	ASN	166	-1.084	12.376	22.935	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.346	11.175	22.867	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.999	13.322	22.768	1.00	0.00
ATOM	2552	H	ASN	166	2.298	14.156	23.985	1.00	0.00
ATOM	2553	HA	ASN	166	-0.195	13.620	25.126	1.00	0.00
ATOM	2554	1HB	ASN	166	1.007	12.095	22.819	1.00	0.00
ATOM	2555	2HB	ASN	166	0.481	13.764	22.654	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.715	14.260	22.825	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.928	13.046	22.587	1.00	0.00
ATOM	2558	N	TRP	167	1.680	10.907	24.843	1.00	0.00
ATOM	2559	CA	TRP	167	1.914	9.588	25.403	1.00	0.00
ATOM	2570	C	TRP	167	2.416	9.676	26.833	1.00	0.00
ATOM	2571	O	TRP	167	2.179	8.771	27.620	1.00	0.00
ATOM	2560	CB	TRP	167	2.861	8.747	24.521	1.00	0.00
ATOM	2561	CG	TRP	167	4.282	9.236	24.440	1.00	0.00
ATOM	2562	CD1	TRP	167	4.860	9.900	23.397	1.00	0.00
ATOM	2563	CD2	TRP	167	5.312	9.067	25.423	1.00	0.00
ATOM	2564	NE1	TRP	167	6.178	10.168	23.677	1.00	0.00
ATOM	2565	CE2	TRP	167	6.479	9.669	24.915	1.00	0.00
ATOM	2566	CE3	TRP	167	5.357	8.474	26.687	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.676	9.692	25.627	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.545	8.497	27.392	1.00	0.00
ATOM	2569	CH2	TRP	167	7.690	9.103	26.861	1.00	0.00
ATOM	2572	H	TRP	167	3.182	11.189	24.053	1.00	0.00
ATOM	2573	HA	TRP	167	0.955	9.090	25.428	1.00	0.00



ATOM	2574	1HB	TRP	167	2.463	8.722	23.515	1.00	0.00
ATOM	2575	2HB	TRP	167	2.886	7.739	24.907	1.00	0.00
ATOM	2576	HD1	TRP	167	4.342	10.174	22.490	1.00	0.00
ATOM	2577	HE1	TRP	167	6.801	10.642	23.085	1.00	0.00
ATOM	2578	HE3	TRP	167	4.479	8.002	27.113	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.568	10.156	25.233	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.597	8.043	28.371	1.00	0.00
ATOM	2581	HH2	TRP	167	8.597	9.098	27.448	1.00	0.00
ATOM	2582	N	ALA	168	3.090	10.765	27.178	1.00	0.00
ATOM	2583	CA	ALA	168	3.593	10.933	28.534	1.00	0.00
ATOM	2585	C	ALA	168	2.467	10.776	29.553	1.00	0.00
ATOM	2586	O	ALA	168	2.640	10.152	30.599	1.00	0.00
ATOM	2584	CB	ALA	168	4.273	12.284	28.689	1.00	0.00
ATOM	2587	H	ALA	168	3.249	11.471	26.509	1.00	0.00
ATOM	2588	HA	ALA	168	4.329	10.162	28.710	1.00	0.00
ATOM	2589	1HB	ALA	168	3.816	12.997	28.019	1.00	0.00
ATOM	2590	2HB	ALA	168	5.322	12.188	28.453	1.00	0.00
ATOM	2591	3HB	ALA	168	4.164	12.627	29.708	1.00	0.00
ATOM	2592	N	SER	169	1.309	11.342	29.238	1.00	0.00
ATOM	2593	CA	SER	169	0.159	11.263	30.124	1.00	0.00
ATOM	2596	C	SER	169	-0.701	10.010	29.886	1.00	0.00
ATOM	2597	O	SER	169	-1.350	9.527	30.810	1.00	0.00
ATOM	2594	CB	SER	169	-0.699	12.521	29.970	1.00	0.00
ATOM	2595	OG	SER	169	0.102	13.640	29.615	1.00	0.00
ATOM	2598	H	SER	169	1.226	11.825	28.385	1.00	0.00
ATOM	2599	HA	SER	169	0.534	11.227	31.137	1.00	0.00
ATOM	2600	1HB	SER	169	-1.198	12.732	30.904	1.00	0.00
ATOM	2601	2HB	SER	169	-1.435	12.362	29.197	1.00	0.00
ATOM	2602	HG	SER	169	1.031	13.387	29.628	1.00	0.00
ATOM	2603	N	VAL	170	-0.747	9.497	28.653	1.00	0.00
ATOM	2604	CA	VAL	170	-1.597	8.329	28.371	1.00	0.00
ATOM	2608	C	VAL	170	-0.874	6.991	28.516	1.00	0.00
ATOM	2609	O	VAL	170	-1.464	6.009	28.966	1.00	0.00
ATOM	2605	CB	VAL	170	-2.244	8.385	26.970	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.451	9.310	26.977	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.243	8.804	25.909	1.00	0.00
ATOM	2610	H	VAL	170	-0.235	9.924	27.925	1.00	0.00
ATOM	2611	HA	VAL	170	-2.402	8.350	29.094	1.00	0.00
ATOM	2612	HB	VAL	170	-2.585	7.392	26.727	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.614	9.697	25.982	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.273	10.130	27.656	1.00	0.00
ATOM	2615	3HG1	VAL	170	-4.324	8.760	27.297	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.869	7.926	25.402	1.00	0.00
ATOM	2617	2HG2	VAL	170	-0.422	9.329	26.376	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.727	9.454	25.195	1.00	0.00
ATOM	2619	N	ARG	171	0.389	6.939	28.133	1.00	0.00
ATOM	2620	CA	ARG	171	1.164	5.707	28.222	1.00	0.00
ATOM	2628	C	ARG	171	1.370	5.308	29.676	1.00	0.00
ATOM	2629	O	ARG	171	1.490	4.128	29.996	1.00	0.00
ATOM	2621	CB	ARG	171	2.515	5.889	27.522	1.00	0.00
ATOM	2622	CG	ARG	171	3.133	4.604	26.999	1.00	0.00
ATOM	2623	CD	ARG	171	4.417	4.888	26.235	1.00	0.00
ATOM	2624	NE	ARG	171	5.538	5.174	27.138	1.00	0.00
ATOM	2625	CZ	ARG	171	6.824	4.946	26.851	1.00	0.00
ATOM	2626	NH1	ARG	171	7.171	4.386	25.694	1.00	0.00
ATOM	2627	NH2	ARG	171	7.764	5.272	27.728	1.00	0.00
ATOM	2630	H	ARG	171	0.819	7.751	27.778	1.00	0.00
ATOM	2631	HA	ARG	171	0.611	4.926	27.721	1.00	0.00
ATOM	2632	1HB	ARG	171	3.208	6.336	28.221	1.00	0.00
ATOM	2633	2HB	ARG	171	2.381	6.560	26.687	1.00	0.00
ATOM	2634	1HG	ARG	171	2.430	4.120	26.337	1.00	0.00
ATOM	2635	2HG	ARG	171	3.356	3.955	27.832	1.00	0.00
ATOM	2636	1HD	ARG	171	4.254	5.746	25.590	1.00	0.00
ATOM	2637	2HD	ARG	171	4.660	4.028	25.630	1.00	0.00
ATOM	2638	HE	ARG	171	5.313	5.573	28.018	1.00	0.00
ATOM	2639	1HH1	ARG	171	6.469	4.132	25.029	1.00	0.00
ATOM	2640	2HH1	ARG	171	8.138	4.213	25.489	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.510	5.689	28.614	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.735	5.119	27.519	1.00	0.00
ATOM	2643	N	THR	172	1.407	6.305	30.546	1.00	0.00
ATOM	2644	CA	THR	172	1.601	6.076	31.967	1.00	0.00
ATOM	2648	C	THR	172	0.273	5.921	32.704	1.00	0.00
ATOM	2649	O	THR	172	0.239	5.445	33.835	1.00	0.00



ATOM	2645	CB	THR	172	2.413	7.225	32.588	1.00	0.00
ATOM	2646	OG1	THR	172	3.282	7.798	31.596	1.00	0.00
ATOM	2647	CG2	THR	172	3.237	6.739	33.767	1.00	0.00
ATOM	2650	H	THR	172	1.306	7.223	30.222	1.00	0.00
ATOM	2651	HA	THR	172	2.164	5.165	32.082	1.00	0.00
ATOM	2652	HB	THR	172	1.726	7.979	32.933	1.00	0.00
ATOM	2653	HG1	THR	172	2.948	8.674	31.340	1.00	0.00
ATOM	2654	1HG2	THR	172	3.724	7.582	34.236	1.00	0.00
ATOM	2655	2HG2	THR	172	3.983	6.039	33.421	1.00	0.00
ATOM	2656	3HG2	THR	172	2.591	6.254	34.482	1.00	0.00
ATOM	2657	N	VAL	173	-0.827	6.310	32.070	1.00	0.00
ATOM	2658	CA	VAL	173	-2.132	6.179	32.704	1.00	0.00
ATOM	2662	C	VAL	173	-2.707	4.784	32.455	1.00	0.00
ATOM	2663	O	VAL	173	-3.516	4.278	33.233	1.00	0.00
ATOM	2659	CB	VAL	173	-3.120	7.281	32.237	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.773	6.943	30.910	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.178	7.534	33.300	1.00	0.00
ATOM	2664	H	VAL	173	-0.761	6.682	31.165	1.00	0.00
ATOM	2665	HA	VAL	173	-1.984	6.296	33.769	1.00	0.00
ATOM	2666	HB	VAL	173	-2.557	8.191	32.103	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.214	5.959	30.966	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.029	6.960	30.126	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.543	7.669	30.692	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.142	7.214	32.931	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.213	8.589	33.531	1.00	0.00
ATOM	2672	3HG2	VAL	173	-3.931	6.978	34.192	1.00	0.00
ATOM	2673	N	LEU	174	-2.268	4.161	31.367	1.00	0.00
ATOM	2674	CA	LEU	174	-2.726	2.822	31.015	1.00	0.00
ATOM	2679	C	LEU	174	-1.558	1.847	30.941	1.00	0.00
ATOM	2680	O	LEU	174	-1.562	0.912	30.138	1.00	0.00
ATOM	2675	CB	LEU	174	-3.484	2.844	29.687	1.00	0.00
ATOM	2676	CG	LEU	174	-4.408	4.044	29.507	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.460	4.470	28.050	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.804	3.733	30.026	1.00	0.00
ATOM	2681	H	LEU	174	-1.618	4.614	30.791	1.00	0.00
ATOM	2682	HA	LEU	174	-3.399	2.493	31.794	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.079	1.946	29.619	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.763	2.843	28.882	1.00	0.00
ATOM	2685	HG	LEU	174	-4.014	4.869	30.083	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.346	4.061	27.587	1.00	0.00
ATOM	2687	2HD1	LEU	174	-3.583	4.101	27.537	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.486	5.547	27.991	1.00	0.00
ATOM	2689	1HD2	LEU	174	-5.968	2.665	29.999	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.538	4.225	29.406	1.00	0.00
ATOM	2691	3HD2	LEU	174	-5.897	4.086	31.042	1.00	0.00
ATOM	2692	N	THR	175	-0.557	2.073	31.781	1.00	0.00
ATOM	2693	CA	THR	175	0.625	1.216	31.825	1.00	0.00
ATOM	2697	C	THR	175	0.253	-0.232	32.147	1.00	0.00
ATOM	2698	O	THR	175	0.900	-1.170	31.678	1.00	0.00
ATOM	2694	CB	THR	175	1.620	1.718	32.884	1.00	0.00
ATOM	2695	OG1	THR	175	1.041	2.812	33.606	1.00	0.00
ATOM	2696	CG2	THR	175	2.926	2.158	32.239	1.00	0.00
ATOM	2699	H	THR	175	-0.608	2.842	32.392	1.00	0.00
ATOM	2700	HA	THR	175	1.105	1.253	30.857	1.00	0.00
ATOM	2701	HB	THR	175	1.829	0.911	33.572	1.00	0.00
ATOM	2702	HG1	THR	175	1.101	2.641	34.557	1.00	0.00
ATOM	2703	1HG2	THR	175	3.423	1.300	31.811	1.00	0.00
ATOM	2704	2HG2	THR	175	3.562	2.607	32.987	1.00	0.00
ATOM	2705	3HG2	THR	175	2.720	2.879	31.462	1.00	0.00
ATOM	2706	N	GLY	176	-0.793	-0.402	32.951	1.00	0.00
ATOM	2707	CA	GLY	176	-1.240	-1.727	33.337	1.00	0.00
ATOM	2708	C	GLY	176	-2.107	-2.397	32.287	1.00	0.00
ATOM	2709	O	GLY	176	-3.161	-2.941	32.605	1.00	0.00
ATOM	2710	H	GLY	176	-1.269	0.391	33.293	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.806	-1.647	34.255	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.374	-2.345	33.517	1.00	0.00
ATOM	2713	N	ALA	177	-1.649	-2.372	31.045	1.00	0.00
ATOM	2714	CA	ALA	177	-2.365	-2.996	29.937	1.00	0.00
ATOM	2716	C	ALA	177	-1.578	-4.201	29.446	1.00	0.00
ATOM	2717	O	ALA	177	-1.810	-4.718	28.357	1.00	0.00
ATOM	2715	CB	ALA	177	-2.578	-1.996	28.810	1.00	0.00
ATOM	2718	H	ALA	177	-0.792	-1.930	30.867	1.00	0.00
ATOM	2719	HA	ALA	177	-3.335	-3.326	30.292	1.00	0.00



ATOM	2720	1HB	ALA	177	-2.197	-1.030	29.108	1.00	0.00
ATOM	2721	2HB	ALA	177	-3.633	-1.917	28.595	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.055	-2.333	27.927	1.00	0.00
ATOM	2723	N	VAL	178	-0.632	-4.637	30.267	1.00	0.00
ATOM	2724	CA	VAL	178	0.207	-5.781	29.943	1.00	0.00
ATOM	2728	C	VAL	178	-0.478	-7.076	30.368	1.00	0.00
ATOM	2729	O	VAL	178	-0.033	-7.760	31.291	1.00	0.00
ATOM	2725	CB	VAL	178	1.594	-5.691	30.619	1.00	0.00
ATOM	2726	CG1	VAL	178	2.663	-6.314	29.732	1.00	0.00
ATOM	2727	CG2	VAL	178	1.951	-4.248	30.953	1.00	0.00
ATOM	2730	H	VAL	178	-0.496	-4.178	31.118	1.00	0.00
ATOM	2731	HA	VAL	178	0.351	-5.796	28.871	1.00	0.00
ATOM	2732	HB	VAL	178	1.555	-6.251	31.543	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.232	-7.125	29.166	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.467	-6.690	30.347	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.048	-5.565	29.053	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.081	-3.622	30.819	1.00	0.00
ATOM	2737	2HG2	VAL	178	2.741	-3.911	30.298	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.284	-4.187	31.978	1.00	0.00
ATOM	2739	N	ALA	179	-1.575	-7.397	29.703	1.00	0.00
ATOM	2740	CA	ALA	179	-2.334	-8.598	30.017	1.00	0.00
ATOM	2742	C	ALA	179	-2.024	-9.713	29.024	1.00	0.00
ATOM	2743	O	ALA	179	-2.699	-10.745	28.998	1.00	0.00
ATOM	2741	CB	ALA	179	-3.825	-8.290	30.030	1.00	0.00
ATOM	2744	H	ALA	179	-1.892	-6.801	28.988	1.00	0.00
ATOM	2745	HA	ALA	179	-2.049	-8.922	31.007	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.991	-7.296	29.642	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.196	-8.348	31.042	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.346	-9.009	29.415	1.00	0.00
ATOM	2749	N	LEU	180	-1.000	-9.500	28.208	1.00	0.00
ATOM	2750	CA	LEU	180	-0.597	-10.483	27.212	1.00	0.00
ATOM	2755	C	LEU	180	0.598	-11.290	27.705	1.00	0.00
ATOM	2756	O	LEU	180	0.572	-12.524	27.691	1.00	0.00
ATOM	2751	CB	LEU	180	-0.249	-9.796	25.888	1.00	0.00
ATOM	2752	CG	LEU	180	-1.278	-8.783	25.381	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.700	-7.961	24.242	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.550	-9.491	24.937	1.00	0.00
ATOM	2757	H	LEU	180	-0.501	-8.660	28.278	1.00	0.00
ATOM	2758	HA	LEU	180	-1.430	-11.153	27.051	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.128	-10.559	25.133	1.00	0.00
ATOM	2760	2HB	LEU	180	0.694	-9.285	26.012	1.00	0.00
ATOM	2761	HG	LEU	180	-1.534	-8.109	26.184	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.457	-8.611	23.414	1.00	0.00
ATOM	2763	2HD1	LEU	180	0.193	-7.457	24.579	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.428	-7.229	23.921	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.994	-9.997	25.781	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.312	-10.213	24.169	1.00	0.00
ATOM	2767	3HD2	LEU	180	-3.248	-8.766	24.544	1.00	0.00
ATOM	2768	N	GLY	181	1.640	-10.579	28.122	1.00	0.00
ATOM	2769	CA	GLY	181	2.852	-11.209	28.605	1.00	0.00
ATOM	2770	C	GLY	181	2.646	-11.988	29.885	1.00	0.00
ATOM	2771	O	GLY	181	2.690	-11.429	30.980	1.00	0.00
ATOM	2772	H	GLY	181	1.596	-9.601	28.084	1.00	0.00
ATOM	2773	1HA	GLY	181	3.593	-10.443	28.780	1.00	0.00
ATOM	2774	2HA	GLY	181	3.221	-11.882	27.845	1.00	0.00
ATOM	2775	N	ALA	182	2.431	-13.283	29.742	1.00	0.00
ATOM	2776	CA	ALA	182	2.229	-14.157	30.882	1.00	0.00
ATOM	2778	C	ALA	182	3.495	-14.955	31.165	1.00	0.00
ATOM	2779	O	ALA	182	4.254	-15.275	30.248	1.00	0.00
ATOM	2777	CB	ALA	182	1.051	-15.089	30.633	1.00	0.00
ATOM	2780	H	ALA	182	2.417	-13.663	28.838	1.00	0.00
ATOM	2781	HA	ALA	182	2.000	-13.542	31.740	1.00	0.00
ATOM	2782	1HB	ALA	182	0.127	-14.545	30.768	1.00	0.00
ATOM	2783	2HB	ALA	182	1.090	-15.913	31.330	1.00	0.00
ATOM	2784	3HB	ALA	182	1.099	-15.469	29.622	1.00	0.00
ATOM	2785	N	LEU	183	3.717	-15.272	32.432	1.00	0.00
ATOM	2790	CA	LEU	183	4.889	-16.031	32.833	1.00	0.00
ATOM	2791	C	LEU	183	4.507	-17.481	33.101	1.00	0.00
ATOM	2792	O	LEU	183	5.281	-18.382	32.720	1.00	0.00
ATOM	2786	CB	LEU	183	5.525	-15.415	34.084	1.00	0.00
ATOM	2787	CG	LEU	183	5.977	-13.961	33.933	1.00	0.00
ATOM	2788	CD1	LEU	183	5.688	-13.177	35.204	1.00	0.00
ATOM	2789	CD2	LEU	183	7.458	-13.898	33.591	1.00	0.00



ATOM	2793	OXT	LEU	183	3.426	-17.708	33.690	1.00	0.00
ATOM	2794	H	LEU	183	3.076	-14.993	33.114	1.00	0.00
ATOM	2795	HA	LEU	183	5.602	-16.001	32.022	1.00	0.00
ATOM	2796	1HB	LEU	183	6.384	-16.009	34.354	1.00	0.00
ATOM	2797	2HB	LEU	183	4.805	-15.465	34.888	1.00	0.00
ATOM	2798	HG	LEU	183	5.426	-13.501	33.125	1.00	0.00
ATOM	2799	1HD1	LEU	183	5.144	-12.278	34.958	1.00	0.00
ATOM	2800	2HD1	LEU	183	6.619	-12.915	35.685	1.00	0.00
ATOM	2801	3HD1	LEU	183	5.097	-13.784	35.874	1.00	0.00
ATOM	2802	1HD2	LEU	183	7.615	-14.291	32.598	1.00	0.00
ATOM	2803	2HD2	LEU	183	8.017	-14.486	34.303	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.793	-12.872	33.630	1.00	0.00
ENDMDL									
MODEL									
	8								
ATOM	3	N	GLY	-4	-36.837	-7.168	11.325	1.00	0.00
ATOM	4	CA	GLY	-4	-37.085	-7.936	10.083	1.00	0.00
ATOM	1	C	GLY	-4	-35.795	-8.361	9.417	1.00	0.00
ATOM	2	O	GLY	-4	-34.739	-8.330	10.048	1.00	0.00
ATOM	5	1HA	GLY	-4	-37.662	-8.817	10.324	1.00	0.00
ATOM	6	2HA	GLY	-4	-37.650	-7.322	9.398	1.00	0.00
ATOM	7	1HT	GLY	-4	-36.288	-6.309	11.109	1.00	0.00
ATOM	8	2HT	GLY	-4	-36.302	-7.750	12.005	1.00	0.00
ATOM	9	3HT	GLY	-4	-37.742	-6.886	11.758	1.00	0.00
ATOM	10	N	PRO	-3	-35.842	-8.765	8.135	1.00	0.00
ATOM	11	CA	PRO	-3	-34.655	-9.199	7.393	1.00	0.00
ATOM	15	C	PRO	-3	-33.705	-8.039	7.106	1.00	0.00
ATOM	16	O	PRO	-3	-32.489	-8.215	7.050	1.00	0.00
ATOM	12	CB	PRO	-3	-35.221	-9.762	6.079	1.00	0.00
ATOM	13	CG	PRO	-3	-36.694	-9.882	6.292	1.00	0.00
ATOM	14	CD	PRO	-3	-37.052	-8.838	7.308	1.00	0.00
ATOM	17	HA	PRO	-3	-34.122	-9.976	7.921	1.00	0.00
ATOM	18	1HB	PRO	-3	-34.774	-10.724	5.878	1.00	0.00
ATOM	19	2HB	PRO	-3	-34.996	-9.082	5.271	1.00	0.00
ATOM	20	1HG	PRO	-3	-36.931	-10.868	6.668	1.00	0.00
ATOM	21	2HG	PRO	-3	-37.215	-9.698	5.365	1.00	0.00
ATOM	22	1HD	PRO	-3	-37.903	-9.154	7.894	1.00	0.00
ATOM	23	2HD	PRO	-3	-37.252	-7.892	6.826	1.00	0.00
ATOM	24	N	LEU	-2	-34.271	-6.853	6.933	1.00	0.00
ATOM	25	CA	LEU	-2	-33.481	-5.662	6.661	1.00	0.00
ATOM	30	C	LEU	-2	-33.012	-5.029	7.965	1.00	0.00
ATOM	31	O	LEU	-2	-33.799	-4.856	8.896	1.00	0.00
ATOM	26	CB	LEU	-2	-34.302	-4.651	5.856	1.00	0.00
ATOM	27	CG	LEU	-2	-34.978	-5.213	4.604	1.00	0.00
ATOM	28	CD1	LEU	-2	-36.436	-4.779	4.547	1.00	0.00
ATOM	29	CD2	LEU	-2	-34.234	-4.767	3.354	1.00	0.00
ATOM	32	H	LEU	-2	-35.243	-6.775	7.000	1.00	0.00
ATOM	33	HA	LEU	-2	-32.617	-5.956	6.084	1.00	0.00
ATOM	34	1HB	LEU	-2	-33.647	-3.847	5.552	1.00	0.00
ATOM	35	2HB	LEU	-2	-35.066	-4.243	6.501	1.00	0.00
ATOM	36	HG	LEU	-2	-34.954	-6.291	4.643	1.00	0.00
ATOM	37	1HD1	LEU	-2	-36.938	-5.090	5.451	1.00	0.00
ATOM	38	2HD1	LEU	-2	-36.915	-5.236	3.694	1.00	0.00
ATOM	39	3HD1	LEU	-2	-36.488	-3.704	4.457	1.00	0.00
ATOM	40	1HD2	LEU	-2	-34.942	-4.401	2.624	1.00	0.00
ATOM	41	2HD2	LEU	-2	-33.691	-5.604	2.941	1.00	0.00
ATOM	42	3HD2	LEU	-2	-33.541	-3.979	3.609	1.00	0.00
ATOM	43	N	GLY	-1	-31.730	-4.696	8.033	1.00	0.00
ATOM	44	CA	GLY	-1	-31.190	-4.095	9.234	1.00	0.00
ATOM	45	C	GLY	-1	-29.797	-3.536	9.028	1.00	0.00
ATOM	46	O	GLY	-1	-28.914	-3.725	9.865	1.00	0.00
ATOM	47	H	GLY	-1	-31.145	-4.868	7.265	1.00	0.00
ATOM	48	1HA	GLY	-1	-31.153	-4.844	10.012	1.00	0.00
ATOM	49	2HA	GLY	-1	-31.843	-3.296	9.550	1.00	0.00
ATOM	50	N	SER	0	-29.598	-2.842	7.918	1.00	0.00
ATOM	51	CA	SER	0	-28.305	-2.251	7.616	1.00	0.00
ATOM	54	C	SER	0	-28.355	-0.739	7.798	1.00	0.00
ATOM	55	O	SER	0	-29.171	-0.057	7.179	1.00	0.00
ATOM	52	CB	SER	0	-27.873	-2.607	6.193	1.00	0.00
ATOM	53	OG	SER	0	-27.427	-3.952	6.122	1.00	0.00
ATOM	56	H	SER	0	-30.339	-2.714	7.290	1.00	0.00
ATOM	57	HA	SER	0	-27.585	-2.659	8.314	1.00	0.00
ATOM	58	1HB	SER	0	-27.066	-1.956	5.888	1.00	0.00
ATOM	59	2HB	SER	0	-28.710	-2.482	5.522	1.00	0.00



ATOM	60	HG	SER	0	-27.120	-4.238	6.997	1.00	0.00
ATOM	61	N	MET	1	-27.490	-0.226	8.662	1.00	0.00
ATOM	62	CA	MET	1	-27.446	1.205	8.937	1.00	0.00
ATOM	67	C	MET	1	-26.216	1.843	8.301	1.00	0.00
ATOM	68	O	MET	1	-25.931	3.019	8.522	1.00	0.00
ATOM	63	CB	MET	1	-27.442	1.455	10.447	1.00	0.00
ATOM	64	CG	MET	1	-28.749	1.084	11.130	1.00	0.00
ATOM	65	SD	MET	1	-28.582	0.936	12.919	1.00	0.00
ATOM	66	CE	MET	1	-28.564	-0.845	13.115	1.00	0.00
ATOM	69	H	MET	1	-26.872	-0.822	9.137	1.00	0.00
ATOM	70	HA	MET	1	-28.331	1.653	8.510	1.00	0.00
ATOM	71	1HB	MET	1	-27.251	2.503	10.625	1.00	0.00
ATOM	72	2HB	MET	1	-26.648	0.874	10.894	1.00	0.00
ATOM	73	1HG	MET	1	-29.090	0.139	10.733	1.00	0.00
ATOM	74	2HG	MET	1	-29.481	1.848	10.915	1.00	0.00
ATOM	75	1HE	MET	1	-29.558	-1.193	13.353	1.00	0.00
ATOM	76	2HE	MET	1	-27.887	-1.112	13.913	1.00	0.00
ATOM	77	3HE	MET	1	-28.233	-1.304	12.195	1.00	0.00
ATOM	78	N	ALA	2	-25.489	1.060	7.514	1.00	0.00
ATOM	79	CA	ALA	2	-24.290	1.548	6.848	1.00	0.00
ATOM	81	C	ALA	2	-24.065	0.816	5.532	1.00	0.00
ATOM	82	O	ALA	2	-24.380	-0.367	5.410	1.00	0.00
ATOM	80	CB	ALA	2	-23.079	1.388	7.755	1.00	0.00
ATOM	83	H	ALA	2	-25.765	0.132	7.375	1.00	0.00
ATOM	84	HA	ALA	2	-24.424	2.602	6.647	1.00	0.00
ATOM	85	1HB	ALA	2	-23.408	1.215	8.770	1.00	0.00
ATOM	86	2HB	ALA	2	-22.482	2.288	7.719	1.00	0.00
ATOM	87	3HB	ALA	2	-22.487	0.549	7.421	1.00	0.00
ATOM	88	N	THR	3	-23.527	1.527	4.552	1.00	0.00
ATOM	89	CA	THR	3	-23.258	0.954	3.247	1.00	0.00
ATOM	93	C	THR	3	-21.761	0.722	3.060	1.00	0.00
ATOM	94	O	THR	3	-20.950	1.594	3.376	1.00	0.00
ATOM	90	CB	THR	3	-23.785	1.871	2.120	1.00	0.00
ATOM	91	OG1	THR	3	-22.820	2.890	1.816	1.00	0.00
ATOM	92	CG2	THR	3	-25.098	2.535	2.516	1.00	0.00
ATOM	95	H	THR	3	-23.302	2.465	4.707	1.00	0.00
ATOM	96	HA	THR	3	-23.772	0.006	3.185	1.00	0.00
ATOM	97	HB	THR	3	-23.953	1.273	1.242	1.00	0.00
ATOM	98	HG1	THR	3	-22.012	2.728	2.320	1.00	0.00
ATOM	99	1HG2	THR	3	-25.255	2.417	3.578	1.00	0.00
ATOM	100	2HG2	THR	3	-25.912	2.072	1.978	1.00	0.00
ATOM	101	3HG2	THR	3	-25.058	3.587	2.273	1.00	0.00
ATOM	102	N	PRO	4	-21.373	-0.452	2.547	1.00	0.00
ATOM	103	CA	PRO	4	-19.970	-0.793	2.317	1.00	0.00
ATOM	107	C	PRO	4	-19.390	-0.042	1.120	1.00	0.00
ATOM	108	O	PRO	4	-19.649	-0.391	-0.030	1.00	0.00
ATOM	104	CB	PRO	4	-19.993	-2.306	2.040	1.00	0.00
ATOM	105	CG	PRO	4	-21.391	-2.754	2.329	1.00	0.00
ATOM	106	CD	PRO	4	-22.262	-1.547	2.145	1.00	0.00
ATOM	109	HA	PRO	4	-19.367	-0.592	3.192	1.00	0.00
ATOM	110	1HB	PRO	4	-19.282	-2.799	2.686	1.00	0.00
ATOM	111	2HB	PRO	4	-19.730	-2.486	1.009	1.00	0.00
ATOM	112	1HG	PRO	4	-21.457	-3.114	3.346	1.00	0.00
ATOM	113	2HG	PRO	4	-21.676	-3.531	1.636	1.00	0.00
ATOM	114	1HD	PRO	4	-23.127	-1.600	2.791	1.00	0.00
ATOM	115	2HD	PRO	4	-22.560	-1.447	1.113	1.00	0.00
ATOM	116	N	ALA	5	-18.609	0.992	1.396	1.00	0.00
ATOM	117	CA	ALA	5	-17.998	1.789	0.343	1.00	0.00
ATOM	119	C	ALA	5	-16.533	1.409	0.158	1.00	0.00
ATOM	120	O	ALA	5	-15.828	1.130	1.130	1.00	0.00
ATOM	118	CB	ALA	5	-18.126	3.272	0.659	1.00	0.00
ATOM	121	H	ALA	5	-18.439	1.228	2.334	1.00	0.00
ATOM	122	HA	ALA	5	-18.531	1.593	-0.575	1.00	0.00
ATOM	123	1HB	ALA	5	-18.419	3.396	1.692	1.00	0.00
ATOM	124	2HB	ALA	5	-18.874	3.713	0.017	1.00	0.00
ATOM	125	3HB	ALA	5	-17.177	3.759	0.495	1.00	0.00
ATOM	126	N	SER	6	-16.085	1.392	-1.090	1.00	0.00
ATOM	127	CA	SER	6	-14.709	1.043	-1.414	1.00	0.00
ATOM	130	C	SER	6	-13.775	2.234	-1.188	1.00	0.00
ATOM	131	O	SER	6	-13.190	2.775	-2.130	1.00	0.00
ATOM	128	CB	SER	6	-14.638	0.567	-2.865	1.00	0.00
ATOM	129	OG	SER	6	-15.942	0.357	-3.388	1.00	0.00
ATOM	132	H	SER	6	-16.699	1.618	-1.822	1.00	0.00



ATOM	133	HA	SER	6	-14.410	0.234	-0.763	1.00	0.00
ATOM	134	1HB	SER	6	-14.090	-0.361	-2.913	1.00	0.00
ATOM	135	2HB	SER	6	-14.137	1.315	-3.464	1.00	0.00
ATOM	136	HG	SER	6	-16.074	-0.582	-3.547	1.00	0.00
ATOM	137	N	ALA	7	-13.645	2.640	0.066	1.00	0.00
ATOM	138	CA	ALA	7	-12.793	3.760	0.425	1.00	0.00
ATOM	140	C	ALA	7	-11.678	3.309	1.360	1.00	0.00
ATOM	141	O	ALA	7	-11.848	2.355	2.124	1.00	0.00
ATOM	139	CB	ALA	7	-13.621	4.861	1.074	1.00	0.00
ATOM	142	H	ALA	7	-14.140	2.170	0.774	1.00	0.00
ATOM	143	HA	ALA	7	-12.356	4.155	-0.482	1.00	0.00
ATOM	144	1HB	ALA	7	-14.637	4.521	1.201	1.00	0.00
ATOM	145	2HB	ALA	7	-13.611	5.738	0.443	1.00	0.00
ATOM	146	3HB	ALA	7	-13.200	5.107	2.038	1.00	0.00
ATOM	147	N	PRO	8	-10.516	3.983	1.311	1.00	0.00
ATOM	148	CA	PRO	8	-9.362	3.652	2.150	1.00	0.00
ATOM	152	C	PRO	8	-9.554	4.090	3.604	1.00	0.00
ATOM	153	O	PRO	8	-8.806	4.922	4.116	1.00	0.00
ATOM	149	CB	PRO	8	-8.201	4.433	1.508	1.00	0.00
ATOM	150	CG	PRO	8	-8.741	4.996	0.233	1.00	0.00
ATOM	151	CD	PRO	8	-10.223	5.115	0.426	1.00	0.00
ATOM	154	HA	PRO	8	-9.145	2.595	2.122	1.00	0.00
ATOM	155	1HB	PRO	8	-7.376	3.761	1.321	1.00	0.00
ATOM	156	2HB	PRO	8	-7.883	5.218	2.179	1.00	0.00
ATOM	157	1HG	PRO	8	-8.523	4.327	-0.587	1.00	0.00
ATOM	158	2HG	PRO	8	-8.309	5.969	0.049	1.00	0.00
ATOM	159	1HD	PRO	8	-10.739	5.015	-0.516	1.00	0.00
ATOM	160	2HD	PRO	8	-10.469	6.054	0.900	1.00	0.00
ATOM	161	N	ASP	9	-10.559	3.524	4.259	1.00	0.00
ATOM	162	CA	ASP	9	-10.846	3.856	5.649	1.00	0.00
ATOM	167	C	ASP	9	-10.064	2.937	6.593	1.00	0.00
ATOM	168	O	ASP	9	-8.983	2.455	6.251	1.00	0.00
ATOM	163	CB	ASP	9	-12.354	3.767	5.932	1.00	0.00
ATOM	164	CG	ASP	9	-12.800	4.687	7.065	1.00	0.00
ATOM	165	OD1	ASP	9	-12.714	4.264	8.244	1.00	0.00
ATOM	166	OD2	ASP	9	-13.237	5.824	6.785	1.00	0.00
ATOM	169	H	ASP	9	-11.123	2.869	3.794	1.00	0.00
ATOM	170	HA	ASP	9	-10.519	4.873	5.814	1.00	0.00
ATOM	171	1HB	ASP	9	-12.601	2.751	6.202	1.00	0.00
ATOM	172	2HB	ASP	9	-12.898	4.039	5.040	1.00	0.00
ATOM	173	N	THR	10	-10.615	2.712	7.773	1.00	0.00
ATOM	174	CA	THR	10	-9.999	1.881	8.796	1.00	0.00
ATOM	178	C	THR	10	-9.646	0.485	8.287	1.00	0.00
ATOM	179	O	THR	10	-8.559	-0.015	8.552	1.00	0.00
ATOM	175	CB	THR	10	-10.938	1.750	10.007	1.00	0.00
ATOM	176	OG1	THR	10	-12.295	1.956	9.586	1.00	0.00
ATOM	177	CG2	THR	10	-10.580	2.755	11.091	1.00	0.00
ATOM	180	H	THR	10	-11.477	3.139	7.977	1.00	0.00
ATOM	181	HA	THR	10	-9.094	2.372	9.122	1.00	0.00
ATOM	182	HB	THR	10	-10.841	0.753	10.413	1.00	0.00
ATOM	183	HG1	THR	10	-12.426	2.886	9.336	1.00	0.00
ATOM	184	1HG2	THR	10	-11.192	2.575	11.964	1.00	0.00
ATOM	185	2HG2	THR	10	-10.759	3.755	10.727	1.00	0.00
ATOM	186	3HG2	THR	10	-9.538	2.648	11.353	1.00	0.00
ATOM	187	N	ARG	11	-10.567	-0.142	7.565	1.00	0.00
ATOM	188	CA	ARG	11	-10.341	-1.488	7.036	1.00	0.00
ATOM	196	C	ARG	11	-9.153	-1.510	6.075	1.00	0.00
ATOM	197	O	ARG	11	-8.385	-2.472	6.046	1.00	0.00
ATOM	189	CB	ARG	11	-11.617	-2.011	6.358	1.00	0.00
ATOM	190	CG	ARG	11	-11.413	-2.543	4.946	1.00	0.00
ATOM	191	CD	ARG	11	-12.680	-3.183	4.408	1.00	0.00
ATOM	192	NE	ARG	11	-12.427	-3.971	3.205	1.00	0.00
ATOM	193	CZ	ARG	11	-13.158	-5.023	2.837	1.00	0.00
ATOM	194	NH1	ARG	11	-14.122	-5.481	3.627	1.00	0.00
ATOM	195	NH2	ARG	11	-12.894	-5.637	1.695	1.00	0.00
ATOM	198	H	ARG	11	-11.424	0.305	7.392	1.00	0.00
ATOM	199	HA	ARG	11	-10.102	-2.129	7.873	1.00	0.00
ATOM	200	1HB	ARG	11	-12.338	-1.208	6.315	1.00	0.00
ATOM	201	2HB	ARG	11	-12.025	-2.810	6.958	1.00	0.00
ATOM	202	1HG	ARG	11	-10.625	-3.280	4.961	1.00	0.00
ATOM	203	2HG	ARG	11	-11.133	-1.725	4.300	1.00	0.00
ATOM	204	1HD	ARG	11	-13.391	-2.404	4.174	1.00	0.00
ATOM	205	2HD	ARG	11	-13.093	-3.828	5.169	1.00	0.00



ATOM	206	HE	ARG	11	-11.677	-3.688	2.628	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.304	-5.039	4.514	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.674	-6.277	3.350	1.00	0.00
ATOM	209	1HH2	ARG	11	-12.147	-5.313	1.111	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.445	-6.434	1.407	1.00	0.00
ATOM	211	N	ALA	12	-8.991	-0.446	5.304	1.00	0.00
ATOM	212	CA	ALA	12	-7.884	-0.367	4.370	1.00	0.00
ATOM	214	C	ALA	12	-6.595	-0.047	5.114	1.00	0.00
ATOM	215	O	ALA	12	-5.528	-0.537	4.763	1.00	0.00
ATOM	213	CB	ALA	12	-8.162	0.676	3.301	1.00	0.00
ATOM	216	H	ALA	12	-9.618	0.304	5.376	1.00	0.00
ATOM	217	HA	ALA	12	-7.783	-1.330	3.889	1.00	0.00
ATOM	218	1HB	ALA	12	-7.899	1.654	3.674	1.00	0.00
ATOM	219	2HB	ALA	12	-9.212	0.659	3.049	1.00	0.00
ATOM	220	3HB	ALA	12	-7.577	0.456	2.421	1.00	0.00
ATOM	221	N	LEU	13	-6.708	0.774	6.152	1.00	0.00
ATOM	222	CA	LEU	13	-5.552	1.161	6.952	1.00	0.00
ATOM	227	C	LEU	13	-5.074	0.000	7.831	1.00	0.00
ATOM	228	O	LEU	13	-3.873	-0.215	7.980	1.00	0.00
ATOM	223	CB	LEU	13	-5.893	2.387	7.808	1.00	0.00
ATOM	224	CG	LEU	13	-4.907	2.700	8.930	1.00	0.00
ATOM	225	CD1	LEU	13	-3.712	3.475	8.398	1.00	0.00
ATOM	226	CD2	LEU	13	-5.605	3.483	10.027	1.00	0.00
ATOM	229	H	LEU	13	-7.596	1.135	6.386	1.00	0.00
ATOM	230	HA	LEU	13	-4.757	1.424	6.270	1.00	0.00
ATOM	231	1HB	LEU	13	-6.866	2.233	8.251	1.00	0.00
ATOM	232	2HB	LEU	13	-5.944	3.249	7.158	1.00	0.00
ATOM	233	HG	LEU	13	-4.546	1.775	9.355	1.00	0.00
ATOM	234	1HD1	LEU	13	-2.802	2.999	8.728	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.746	4.488	8.771	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.742	3.487	7.318	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.108	3.302	10.968	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.635	3.165	10.095	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.568	4.538	9.796	1.00	0.00
ATOM	240	N	VAL	14	-6.013	-0.750	8.408	1.00	0.00
ATOM	241	CA	VAL	14	-5.659	-1.879	9.261	1.00	0.00
ATOM	245	C	VAL	14	-4.968	-2.963	8.436	1.00	0.00
ATOM	246	O	VAL	14	-3.997	-3.577	8.884	1.00	0.00
ATOM	242	CB	VAL	14	-6.889	-2.466	10.022	1.00	0.00
ATOM	243	CG1	VAL	14	-7.801	-3.272	9.107	1.00	0.00
ATOM	244	CG2	VAL	14	-6.431	-3.315	11.199	1.00	0.00
ATOM	247	H	VAL	14	-6.963	-0.538	8.256	1.00	0.00
ATOM	248	HA	VAL	14	-4.955	-1.514	9.996	1.00	0.00
ATOM	249	HB	VAL	14	-7.465	-1.642	10.415	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.107	-2.658	8.274	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.672	-3.591	9.660	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.270	-4.139	8.741	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.684	-4.020	10.865	1.00	0.00
ATOM	254	2HG2	VAL	14	-7.276	-3.851	11.608	1.00	0.00
ATOM	255	3HG2	VAL	14	-6.008	-2.675	11.959	1.00	0.00
ATOM	256	N	ALA	15	-5.458	-3.174	7.219	1.00	0.00
ATOM	257	CA	ALA	15	-4.873	-4.163	6.327	1.00	0.00
ATOM	259	C	ALA	15	-3.537	-3.666	5.780	1.00	0.00
ATOM	260	O	ALA	15	-2.679	-4.457	5.393	1.00	0.00
ATOM	258	CB	ALA	15	-5.834	-4.482	5.190	1.00	0.00
ATOM	261	H	ALA	15	-6.228	-2.642	6.911	1.00	0.00
ATOM	262	HA	ALA	15	-4.706	-5.068	6.893	1.00	0.00
ATOM	263	1HB	ALA	15	-5.276	-4.826	4.331	1.00	0.00
ATOM	264	2HB	ALA	15	-6.388	-3.593	4.926	1.00	0.00
ATOM	265	3HB	ALA	15	-6.523	-5.253	5.503	1.00	0.00
ATOM	266	N	ASP	16	-3.377	-2.348	5.760	1.00	0.00
ATOM	267	CA	ASP	16	-2.156	-1.719	5.265	1.00	0.00
ATOM	272	C	ASP	16	-1.038	-1.803	6.294	1.00	0.00
ATOM	273	O	ASP	16	0.020	-2.362	6.020	1.00	0.00
ATOM	268	CB	ASP	16	-2.421	-0.252	4.901	1.00	0.00
ATOM	269	CG	ASP	16	-1.183	0.621	4.997	1.00	0.00
ATOM	270	OD1	ASP	16	-0.312	0.526	4.112	1.00	0.00
ATOM	271	OD2	ASP	16	-1.088	1.431	5.946	1.00	0.00
ATOM	274	H	ASP	16	-4.104	-1.777	6.088	1.00	0.00
ATOM	275	HA	ASP	16	-1.850	-2.249	4.378	1.00	0.00
ATOM	276	1HB	ASP	16	-3.171	0.146	5.569	1.00	0.00
ATOM	277	2HB	ASP	16	-2.789	-0.202	3.888	1.00	0.00
ATOM	278	N	PHE	17	-1.274	-1.235	7.473	1.00	0.00



ATOM	279	CA	PHE	17	-0.277	-1.232	8.539	1.00	0.00
ATOM	287	C	PHE	17	0.160	-2.642	8.906	1.00	0.00
ATOM	288	O	PHE	17	1.352	-2.952	8.898	1.00	0.00
ATOM	280	CB	PHE	17	-0.801	-0.513	9.783	1.00	0.00
ATOM	281	CG	PHE	17	0.301	0.012	10.659	1.00	0.00
ATOM	282	CD1	PHE	17	1.352	0.733	10.115	1.00	0.00
ATOM	283	CD2	PHE	17	0.295	-0.232	12.022	1.00	0.00
ATOM	284	CE1	PHE	17	2.374	1.203	10.915	1.00	0.00
ATOM	285	CE2	PHE	17	1.313	0.238	12.828	1.00	0.00
ATOM	286	CZ	PHE	17	2.355	0.955	12.274	1.00	0.00
ATOM	289	H	PHE	17	-2.141	-0.795	7.622	1.00	0.00
ATOM	290	HA	PHE	17	0.585	-0.695	8.171	1.00	0.00
ATOM	291	1HB	PHE	17	-1.394	-1.200	10.369	1.00	0.00
ATOM	292	2HB	PHE	17	-1.416	0.323	9.481	1.00	0.00
ATOM	293	HD1	PHE	17	1.366	0.929	9.053	1.00	0.00
ATOM	294	HD2	PHE	17	-0.519	-0.793	12.457	1.00	0.00
ATOM	295	HE1	PHE	17	3.188	1.764	10.480	1.00	0.00
ATOM	296	HE2	PHE	17	1.296	0.042	13.890	1.00	0.00
ATOM	297	HZ	PHE	17	3.154	1.321	12.902	1.00	0.00
ATOM	298	N	VAL	18	-0.805	-3.494	9.220	1.00	0.00
ATOM	299	CA	VAL	18	-0.511	-4.871	9.584	1.00	0.00
ATOM	303	C	VAL	18	0.051	-5.615	8.379	1.00	0.00
ATOM	304	O	VAL	18	0.996	-6.389	8.505	1.00	0.00
ATOM	300	CB	VAL	18	-1.768	-5.600	10.112	1.00	0.00
ATOM	301	CG1	VAL	18	-1.456	-7.048	10.457	1.00	0.00
ATOM	302	CG2	VAL	18	-2.334	-4.872	11.323	1.00	0.00
ATOM	305	H	VAL	18	-1.739	-3.189	9.202	1.00	0.00
ATOM	306	HA	VAL	18	0.238	-4.860	10.368	1.00	0.00
ATOM	307	HB	VAL	18	-2.517	-5.592	9.334	1.00	0.00
ATOM	308	1HG1	VAL	18	-1.652	-7.221	11.506	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.417	-7.253	10.248	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.078	-7.701	9.864	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.319	-3.809	11.142	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.734	-5.099	12.192	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.351	-5.193	11.493	1.00	0.00
ATOM	314	N	GLY	19	-0.517	-5.353	7.210	1.00	0.00
ATOM	315	CA	GLY	19	-0.045	-5.992	5.998	1.00	0.00
ATOM	316	C	GLY	19	1.405	-5.668	5.714	1.00	0.00
ATOM	317	O	GLY	19	2.209	-6.566	5.484	1.00	0.00
ATOM	318	H	GLY	19	-1.254	-4.708	7.164	1.00	0.00
ATOM	319	1HA	GLY	19	-0.648	-5.658	5.167	1.00	0.00
ATOM	320	2HA	GLY	19	-0.151	-7.062	6.102	1.00	0.00
ATOM	321	N	TYR	20	1.733	-4.383	5.725	1.00	0.00
ATOM	322	CA	TYR	20	3.091	-3.925	5.468	1.00	0.00
ATOM	331	C	TYR	20	4.050	-4.439	6.535	1.00	0.00
ATOM	332	O	TYR	20	5.163	-4.851	6.230	1.00	0.00
ATOM	323	CB	TYR	20	3.145	-2.394	5.425	1.00	0.00
ATOM	324	CG	TYR	20	4.521	-1.846	5.108	1.00	0.00
ATOM	325	CD1	TYR	20	5.083	-2.017	3.851	1.00	0.00
ATOM	326	CD2	TYR	20	5.256	-1.163	6.069	1.00	0.00
ATOM	327	CE1	TYR	20	6.339	-1.525	3.557	1.00	0.00
ATOM	328	CE2	TYR	20	6.514	-0.666	5.782	1.00	0.00
ATOM	329	CZ	TYR	20	7.051	-0.851	4.524	1.00	0.00
ATOM	330	OH	TYR	20	8.302	-0.359	4.232	1.00	0.00
ATOM	333	H	TYR	20	1.034	-3.718	5.905	1.00	0.00
ATOM	334	HA	TYR	20	3.391	-4.312	4.505	1.00	0.00
ATOM	335	1HB	TYR	20	2.844	-2.003	6.386	1.00	0.00
ATOM	336	2HB	TYR	20	2.464	-2.038	4.666	1.00	0.00
ATOM	337	HD1	TYR	20	4.834	-1.022	7.052	1.00	0.00
ATOM	338	HD2	TYR	20	4.523	-2.546	3.094	1.00	0.00
ATOM	339	HE1	TYR	20	7.072	-0.139	6.541	1.00	0.00
ATOM	340	HE2	TYR	20	6.758	-1.668	2.572	1.00	0.00
ATOM	341	HH	TYR	20	8.579	0.255	4.929	1.00	0.00
ATOM	342	N	LYS	21	3.607	-4.402	7.785	1.00	0.00
ATOM	343	CA	LYS	21	4.419	-4.854	8.909	1.00	0.00
ATOM	349	C	LYS	21	4.717	-6.347	8.792	1.00	0.00
ATOM	350	O	LYS	21	5.834	-6.789	9.057	1.00	0.00
ATOM	344	CB	LYS	21	3.703	-4.549	10.231	1.00	0.00
ATOM	345	CG	LYS	21	4.317	-3.401	11.034	1.00	0.00
ATOM	346	CD	LYS	21	5.788	-3.174	10.704	1.00	0.00
ATOM	347	CE	LYS	21	6.168	-1.703	10.835	1.00	0.00
ATOM	348	NZ	LYS	21	7.643	-1.505	10.836	1.00	0.00
ATOM	351	H	LYS	21	2.705	-4.055	7.960	1.00	0.00



ATOM	352	HA	LYS	21	5.352	-4.311	8.882	1.00	0.00
ATOM	353	1HB	LYS	21	3.710	-5.436	10.845	1.00	0.00
ATOM	354	2HB	LYS	21	2.679	-4.288	10.010	1.00	0.00
ATOM	355	1HG	LYS	21	4.225	-3.627	12.087	1.00	0.00
ATOM	356	2HG	LYS	21	3.773	-2.496	10.815	1.00	0.00
ATOM	357	1HD	LYS	21	5.973	-3.497	9.691	1.00	0.00
ATOM	358	2HD	LYS	21	6.393	-3.752	11.386	1.00	0.00
ATOM	359	1HE	LYS	21	5.760	-1.322	11.761	1.00	0.00
ATOM	360	2HE	LYS	21	5.742	-1.160	10.005	1.00	0.00
ATOM	361	1HZ	LYS	21	8.015	-1.573	11.816	1.00	0.00
ATOM	362	2HZ	LYS	21	7.885	-0.565	10.453	1.00	0.00
ATOM	363	3KZ	LYS	21	8.103	-2.234	10.252	1.00	0.00
ATOM	364	N	LEU	22	3.713	-7.113	8.380	1.00	0.00
ATOM	365	CA	LEU	22	3.867	-8.554	8.211	1.00	0.00
ATOM	370	C	LEU	22	4.698	-8.834	6.970	1.00	0.00
ATOM	371	O	LEU	22	5.586	-9.679	6.984	1.00	0.00
ATOM	366	CB	LEU	22	2.500	-9.233	8.084	1.00	0.00
ATOM	367	CG	LEU	22	1.872	-9.718	9.395	1.00	0.00
ATOM	368	CD1	LEU	22	1.873	-8.613	10.437	1.00	0.00
ATOM	369	CD2	LEU	22	0.458	-10.211	9.139	1.00	0.00
ATOM	372	H	LEU	22	2.848	-6.699	8.177	1.00	0.00
ATOM	373	HA	LEU	22	4.380	-8.945	9.078	1.00	0.00
ATOM	374	1HB	LEU	22	2.608	-10.085	7.429	1.00	0.00
ATOM	375	2HB	LEU	22	1.817	-8.533	7.623	1.00	0.00
ATOM	376	HG	LEU	22	2.448	-10.545	9.788	1.00	0.00
ATOM	377	1HD1	LEU	22	0.863	-8.265	10.593	1.00	0.00
ATOM	378	2HD1	LEU	22	2.488	-7.795	10.094	1.00	0.00
ATOM	379	3HD1	LEU	22	2.269	-8.996	11.367	1.00	0.00
ATOM	380	1HD2	LEU	22	0.489	-11.239	8.812	1.00	0.00
ATOM	381	2HD2	LEU	22	0.000	-9.603	8.372	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.119	-10.138	10.048	1.00	0.00
ATOM	383	N	ARG	23	4.407	-8.094	5.905	1.00	0.00
ATOM	384	CA	ARG	23	5.120	-8.225	4.637	1.00	0.00
ATOM	392	C	ARG	23	6.577	-7.795	4.802	1.00	0.00
ATOM	393	O	ARG	23	7.425	-8.087	3.958	1.00	0.00
ATOM	385	CB	ARG	23	4.425	-7.374	3.564	1.00	0.00
ATOM	386	CG	ARG	23	4.237	-8.073	2.234	1.00	0.00
ATOM	387	CD	ARG	23	3.769	-7.094	1.167	1.00	0.00
ATOM	388	NE	ARG	23	4.699	-5.973	0.994	1.00	0.00
ATOM	389	CZ	ARG	23	5.827	-6.026	0.281	1.00	0.00
ATOM	390	NH1	ARG	23	6.183	-7.148	-0.332	1.00	0.00
ATOM	391	NH2	ARG	23	6.593	-4.946	0.182	1.00	0.00
ATOM	394	H	ARG	23	3.688	-7.425	5.978	1.00	0.00
ATOM	395	HA	ARG	23	5.093	-9.263	4.340	1.00	0.00
ATOM	396	1HB	ARG	23	5.003	-6.482	3.388	1.00	0.00
ATOM	397	2HB	ARG	23	3.451	-7.087	3.929	1.00	0.00
ATOM	398	1HG	ARG	23	3.497	-8.852	2.346	1.00	0.00
ATOM	399	2HG	ARG	23	5.178	-8.506	1.926	1.00	0.00
ATOM	400	1HD	ARG	23	2.797	-6.699	1.454	1.00	0.00
ATOM	401	2HD	ARG	23	3.679	-7.620	0.228	1.00	0.00
ATOM	402	HE	ARG	23	4.461	-5.121	1.433	1.00	0.00
ATOM	403	1HH1	ARG	23	5.612	-7.965	-0.262	1.00	0.00
ATOM	404	2HH1	ARG	23	7.031	-7.180	-0.883	1.00	0.00
ATOM	405	1HH2	ARG	23	6.327	-4.093	0.638	1.00	0.00
ATOM	406	2HH2	ARG	23	7.453	-4.977	-0.350	1.00	0.00
ATOM	407	N	GLN	24	6.851	-7.102	5.902	1.00	0.00
ATOM	408	CA	GLN	24	8.193	-6.626	6.205	1.00	0.00
ATOM	414	C	GLN	24	9.027	-7.721	6.863	1.00	0.00
ATOM	415	O	GLN	24	10.235	-7.807	6.638	1.00	0.00
ATOM	409	CB	GLN	24	8.123	-5.411	7.132	1.00	0.00
ATOM	410	CG	GLN	24	8.772	-4.163	6.558	1.00	0.00
ATOM	411	CD	GLN	24	8.915	-3.051	7.581	1.00	0.00
ATOM	412	OE1	GLN	24	8.447	-3.159	8.718	1.00	0.00
ATOM	413	NE2	GLN	24	9.568	-1.972	7.186	1.00	0.00
ATOM	416	H	GLN	24	6.122	-6.906	6.532	1.00	0.00
ATOM	417	HA	GLN	24	8.664	-6.337	5.278	1.00	0.00
ATOM	418	1HB	GLN	24	8.618	-5.652	8.062	1.00	0.00
ATOM	419	2HB	GLN	24	7.086	-5.187	7.335	1.00	0.00
ATOM	420	1HG	GLN	24	8.167	-3.803	5.739	1.00	0.00
ATOM	421	2HG	GLN	24	9.755	-4.421	6.192	1.00	0.00
ATOM	422	1HE2	GLN	24	9.919	-1.954	6.267	1.00	0.00
ATOM	423	2HE2	GLN	24	9.678	-1.236	7.822	1.00	0.00
ATOM	424	N	LYS	25	8.384	-8.550	7.685	1.00	0.00



ATOM	425	CA	LYS	25	9.086	-9.628	8.378	1.00	0.00
ATOM	431	C	LYS	25	8.126	-10.736	8.811	1.00	0.00
ATOM	432	O	LYS	25	7.732	-10.813	9.978	1.00	0.00
ATOM	426	CB	LYS	25	9.843	-9.081	9.601	1.00	0.00
ATOM	427	CG	LYS	25	9.111	-7.970	10.344	1.00	0.00
ATOM	428	CD	LYS	25	9.647	-7.797	11.757	1.00	0.00
ATOM	429	CE	LYS	25	9.080	-6.551	12.422	1.00	0.00
ATOM	430	NZ	LYS	25	10.052	-5.930	13.363	1.00	0.00
ATOM	433	H	LYS	25	7.417	-8.430	7.833	1.00	0.00
ATOM	434	HA	LYS	25	9.802	-10.046	7.688	1.00	0.00
ATOM	435	1HB	LYS	25	10.797	-8.696	9.273	1.00	0.00
ATOM	436	2HB	LYS	25	10.015	-9.893	10.294	1.00	0.00
ATOM	437	1HG	LYS	25	8.061	-8.216	10.395	1.00	0.00
ATOM	438	2HG	LYS	25	9.241	-7.044	9.805	1.00	0.00
ATOM	439	1HD	LYS	25	10.723	-7.715	11.715	1.00	0.00
ATOM	440	2HD	LYS	25	9.373	-8.661	12.344	1.00	0.00
ATOM	441	1HE	LYS	25	8.188	-6.822	12.966	1.00	0.00
ATOM	442	2HE	LYS	25	8.829	-5.834	11.655	1.00	0.00
ATOM	443	1HZ	LYS	25	10.136	-6.502	14.224	1.00	0.00
ATOM	444	2HZ	LYS	25	9.733	-4.967	13.630	1.00	0.00
ATOM	445	3HZ	LYS	25	10.993	-5.855	12.913	1.00	0.00
ATOM	446	N	GLY	26	7.759	-11.596	7.872	1.00	0.00
ATOM	447	CA	GLY	26	6.859	-12.690	8.185	1.00	0.00
ATOM	448	C	GLY	26	6.032	-13.123	6.995	1.00	0.00
ATOM	449	O	GLY	26	6.243	-14.196	6.434	1.00	0.00
ATOM	450	H	GLY	26	8.104	-11.492	6.962	1.00	0.00
ATOM	451	1HA	GLY	26	6.193	-12.377	8.974	1.00	0.00
ATOM	452	2HA	GLY	26	7.437	-13.531	8.530	1.00	0.00
ATOM	453	N	TYR	27	5.098	-12.280	6.602	1.00	0.00
ATOM	454	CA	TYR	27	4.231	-12.566	5.468	1.00	0.00
ATOM	463	C	TYR	27	4.863	-12.066	4.171	1.00	0.00
ATOM	464	O	TYR	27	4.289	-11.239	3.460	1.00	0.00
ATOM	455	CB	TYR	27	2.854	-11.924	5.681	1.00	0.00
ATOM	456	CG	TYR	27	1.720	-12.637	4.969	1.00	0.00
ATOM	457	CD1	TYR	27	1.759	-14.010	4.752	1.00	0.00
ATOM	458	CD2	TYR	27	0.611	-11.935	4.518	1.00	0.00
ATOM	459	CE1	TYR	27	0.726	-14.661	4.105	1.00	0.00
ATOM	460	CE2	TYR	27	-0.428	-12.578	3.870	1.00	0.00
ATOM	461	CZ	TYR	27	-0.366	-13.941	3.666	1.00	0.00
ATOM	462	OH	TYR	27	-1.397	-14.583	3.016	1.00	0.00
ATOM	465	H	TYR	27	4.994	-11.430	7.083	1.00	0.00
ATOM	466	HA	TYR	27	4.113	-13.638	5.406	1.00	0.00
ATOM	467	1HB	TYR	27	2.882	-10.907	5.323	1.00	0.00
ATOM	468	2HB	TYR	27	2.629	-11.921	6.736	1.00	0.00
ATOM	469	HD1	TYR	27	0.564	-10.868	4.679	1.00	0.00
ATOM	470	HD2	TYR	27	2.616	-14.572	5.099	1.00	0.00
ATOM	471	HE1	TYR	27	-1.282	-12.013	3.527	1.00	0.00
ATOM	472	HE2	TYR	27	0.774	-15.727	3.946	1.00	0.00
ATOM	473	HH	TYR	27	-1.867	-15.154	3.637	1.00	0.00
ATOM	474	N	VAL	28	6.050	-12.576	3.870	1.00	0.00
ATOM	475	CA	VAL	28	6.766	-12.190	2.660	1.00	0.00
ATOM	479	C	VAL	28	6.199	-12.936	1.457	1.00	0.00
ATOM	480	O	VAL	28	6.203	-12.433	0.333	1.00	0.00
ATOM	476	CB	VAL	28	8.281	-12.475	2.774	1.00	0.00
ATOM	477	CG1	VAL	28	9.060	-11.668	1.744	1.00	0.00
ATOM	478	CG2	VAL	28	8.782	-12.174	4.181	1.00	0.00
ATOM	481	H	VAL	28	6.453	-13.232	4.478	1.00	0.00
ATOM	482	HA	VAL	28	6.627	-11.128	2.512	1.00	0.00
ATOM	483	HB	VAL	28	8.445	-13.523	2.574	1.00	0.00
ATOM	484	1HG1	VAL	28	9.273	-10.687	2.141	1.00	0.00
ATOM	485	2HG1	VAL	28	8.472	-11.572	0.844	1.00	0.00
ATOM	486	3HG1	VAL	28	9.986	-12.174	1.516	1.00	0.00
ATOM	487	1HG2	VAL	28	8.015	-11.649	4.731	1.00	0.00
ATOM	488	2HG2	VAL	28	9.669	-11.560	4.124	1.00	0.00
ATOM	489	3HG2	VAL	28	9.016	-13.100	4.684	1.00	0.00
ATOM	490	N	CYS	29	5.694	-14.133	1.720	1.00	0.00
ATOM	491	CA	CYS	29	5.098	-14.962	0.688	1.00	0.00
ATOM	494	C	CYS	29	3.803	-14.324	0.206	1.00	0.00
ATOM	495	O	CYS	29	3.529	-14.257	-0.992	1.00	0.00
ATOM	492	CB	CYS	29	4.827	-16.357	1.248	1.00	0.00
ATOM	493	SG	CYS	29	4.834	-16.422	3.057	1.00	0.00
ATOM	496	H	CYS	29	5.708	-14.463	2.640	1.00	0.00
ATOM	497	HA	CYS	29	5.793	-15.032	-0.137	1.00	0.00



ATOM	498	1HB	CYS	29	5.587	-17.034	0.890	1.00	0.00
ATOM	499	2HB	CYS	29	3.860	-16.693	0.908	1.00	0.00
ATOM	500	HG	CYS	29	5.665	-17.392	3.435	1.00	0.00
ATOM	501	N	GLY	30	3.023	-13.834	1.159	1.00	0.00
ATOM	502	CA	GLY	30	1.770	-13.187	0.840	1.00	0.00
ATOM	503	C	GLY	30	1.940	-11.705	0.606	1.00	0.00
ATOM	504	O	GLY	30	1.338	-10.879	1.294	1.00	0.00
ATOM	505	H	GLY	30	3.309	-13.905	2.091	1.00	0.00
ATOM	506	1HA	GLY	30	1.084	-13.331	1.655	1.00	0.00
ATOM	507	2HA	GLY	30	1.358	-13.637	-0.050	1.00	0.00
ATOM	508	N	ALA	31	2.761	-11.369	-0.371	1.00	0.00
ATOM	509	CA	ALA	31	3.012	-9.979	-0.716	1.00	0.00
ATOM	511	C	ALA	31	1.754	-9.352	-1.302	1.00	0.00
ATOM	512	O	ALA	31	1.159	-9.894	-2.234	1.00	0.00
ATOM	510	CB	ALA	31	4.168	-9.877	-1.697	1.00	0.00
ATOM	513	H	ALA	31	3.205	-12.079	-0.878	1.00	0.00
ATOM	514	HA	ALA	31	3.282	-9.450	0.187	1.00	0.00
ATOM	515	1HB	ALA	31	4.868	-9.129	-1.354	1.00	0.00
ATOM	516	2HB	ALA	31	3.792	-9.598	-2.670	1.00	0.00
ATOM	517	3HB	ALA	31	4.668	-10.833	-1.765	1.00	0.00
ATOM	518	N	GLY	32	1.336	-8.219	-0.751	1.00	0.00
ATOM	519	CA	GLY	32	0.137	-7.573	-1.255	1.00	0.00
ATOM	520	C	GLY	32	-0.501	-6.608	-0.268	1.00	0.00
ATOM	521	O	GLY	32	-0.723	-5.450	-0.601	1.00	0.00
ATOM	522	H	GLY	32	1.835	-7.825	0.000	1.00	0.00
ATOM	523	1HA	GLY	32	-0.585	-8.337	-1.508	1.00	0.00
ATOM	524	2HA	GLY	32	0.389	-7.028	-2.151	1.00	0.00
ATOM	525	N	PRO	33	-0.819	-7.045	0.964	1.00	0.00
ATOM	526	CA	PRO	33	-1.444	-6.170	1.963	1.00	0.00
ATOM	530	C	PRO	33	-0.578	-4.953	2.255	1.00	0.00
ATOM	531	O	PRO	33	-1.062	-3.829	2.342	1.00	0.00
ATOM	527	CB	PRO	33	-1.557	-7.064	3.203	1.00	0.00
ATOM	528	CG	PRO	33	-1.526	-8.454	2.675	1.00	0.00
ATOM	529	CD	PRO	33	-0.609	-8.405	1.489	1.00	0.00
ATOM	532	HA	PRO	33	-2.428	-5.850	1.653	1.00	0.00
ATOM	533	1HB	PRO	33	-2.480	-6.857	3.717	1.00	0.00
ATOM	534	2HB	PRO	33	-0.723	-6.875	3.863	1.00	0.00
ATOM	535	1HG	PRO	33	-2.517	-8.760	2.374	1.00	0.00
ATOM	536	2HG	PRO	33	-1.136	-9.125	3.428	1.00	0.00
ATOM	537	1HD	PRO	33	-0.883	-9.146	0.760	1.00	0.00
ATOM	538	2HD	PRO	33	0.416	-8.543	1.802	1.00	0.00
ATOM	539	N	GLY	34	0.711	-5.205	2.382	1.00	0.00
ATOM	540	CA	GLY	34	1.660	-4.150	2.644	1.00	0.00
ATOM	541	C	GLY	34	2.456	-3.772	1.418	1.00	0.00
ATOM	542	O	GLY	34	3.650	-3.491	1.512	1.00	0.00
ATOM	543	H	GLY	34	1.022	-6.125	2.288	1.00	0.00
ATOM	544	1HA	GLY	34	2.344	-4.483	3.410	1.00	0.00
ATOM	545	2HA	GLY	34	1.134	-3.279	3.006	1.00	0.00
ATOM	546	N	GLU	35	1.809	-3.774	0.261	1.00	0.00
ATOM	547	CA	GLU	35	2.495	-3.424	-0.974	1.00	0.00
ATOM	553	C	GLU	35	2.372	-1.923	-1.235	1.00	0.00
ATOM	554	O	GLU	35	2.997	-1.382	-2.148	1.00	0.00
ATOM	548	CB	GLU	35	1.954	-4.233	-2.162	1.00	0.00
ATOM	549	CG	GLU	35	0.647	-3.712	-2.744	1.00	0.00
ATOM	550	CD	GLU	35	-0.090	-4.769	-3.546	1.00	0.00
ATOM	551	OE1	GLU	35	0.544	-5.769	-3.943	1.00	0.00
ATOM	552	OE2	GLU	35	-1.307	-4.610	-3.778	1.00	0.00
ATOM	555	H	GLU	35	0.858	-4.017	0.234	1.00	0.00
ATOM	556	HA	GLU	35	3.539	-3.668	-0.835	1.00	0.00
ATOM	557	1HB	GLU	35	1.798	-5.253	-1.840	1.00	0.00
ATOM	558	2HB	GLU	35	2.695	-4.228	-2.946	1.00	0.00
ATOM	559	1HG	GLU	35	0.861	-2.874	-3.391	1.00	0.00
ATOM	560	2HG	GLU	35	0.009	-3.388	-1.935	1.00	0.00
ATOM	561	N	GLY	36	1.573	-1.258	-0.408	1.00	0.00
ATOM	562	CA	GLY	36	1.382	0.171	-0.539	1.00	0.00
ATOM	563	C	GLY	36	2.124	0.939	0.538	1.00	0.00
ATOM	564	O	GLY	36	2.249	0.463	1.669	1.00	0.00
ATOM	565	H	GLY	36	1.116	-1.743	0.309	1.00	0.00
ATOM	566	1HA	GLY	36	0.328	0.393	-0.466	1.00	0.00
ATOM	567	2HA	GLY	36	1.742	0.487	-1.508	1.00	0.00
ATOM	568	N	PRO	37	2.652	2.126	0.214	1.00	0.00
ATOM	569	CA	PRO	37	3.399	2.940	1.152	1.00	0.00
ATOM	573	C	PRO	37	2.544	4.015	1.829	1.00	0.00



ATOM	574	O	PRO	37	1.335	3.851	2.028	1.00	0.00
ATOM	570	CB	PRO	37	4.441	3.581	0.238	1.00	0.00
ATOM	571	CG	PRO	37	3.743	3.750	-1.078	1.00	0.00
ATOM	572	CD	PRO	37	2.595	2.762	-1.109	1.00	0.00
ATOM	575	HA	PRO	37	3.893	2.341	1.901	1.00	0.00
ATOM	576	1HB	PRO	37	5.296	2.929	0.149	1.00	0.00
ATOM	577	2HB	PRO	37	4.746	4.532	0.649	1.00	0.00
ATOM	578	1HG	PRO	37	4.433	3.543	-1.883	1.00	0.00
ATOM	579	2HG	PRO	37	3.367	4.758	-1.162	1.00	0.00
ATOM	580	1HD	PRO	37	2.745	2.034	-1.893	1.00	0.00
ATOM	581	2HD	PRO	37	1.656	3.277	-1.246	1.00	0.00
ATOM	582	N	ALA	38	3.187	5.117	2.180	1.00	0.00
ATOM	583	CA	ALA	38	2.521	6.230	2.832	1.00	0.00
ATOM	585	C	ALA	38	1.955	7.200	1.799	1.00	0.00
ATOM	586	O	ALA	38	2.615	8.164	1.419	1.00	0.00
ATOM	584	CB	ALA	38	3.506	6.935	3.748	1.00	0.00
ATOM	587	H	ALA	38	4.146	5.186	1.990	1.00	0.00
ATOM	588	HA	ALA	38	1.712	5.843	3.437	1.00	0.00
ATOM	589	1HB	ALA	38	4.140	7.587	3.164	1.00	0.00
ATOM	590	2HB	ALA	38	4.115	6.200	4.255	1.00	0.00
ATOM	591	3HB	ALA	38	2.966	7.519	4.478	1.00	0.00
ATOM	592	N	ALA	39	0.740	6.933	1.332	1.00	0.00
ATOM	593	CA	ALA	39	0.116	7.790	0.326	1.00	0.00
ATOM	595	C	ALA	39	-1.293	8.201	0.731	1.00	0.00
ATOM	596	O	ALA	39	-1.986	8.901	-0.010	1.00	0.00
ATOM	594	CB	ALA	39	0.092	7.078	-1.017	1.00	0.00
ATOM	597	H	ALA	39	0.258	6.141	1.657	1.00	0.00
ATOM	598	HA	ALA	39	0.722	8.678	0.224	1.00	0.00
ATOM	599	1HB	ALA	39	0.699	6.187	-0.963	1.00	0.00
ATOM	600	2HB	ALA	39	0.484	7.736	-1.780	1.00	0.00
ATOM	601	3HB	ALA	39	-0.923	6.806	-1.264	1.00	0.00
ATOM	602	N	ASP	40	-1.710	7.769	1.910	1.00	0.00
ATOM	603	CA	ASP	40	-3.033	8.093	2.419	1.00	0.00
ATOM	608	C	ASP	40	-2.914	9.116	3.538	1.00	0.00
ATOM	609	O	ASP	40	-1.849	9.248	4.146	1.00	0.00
ATOM	604	CB	ASP	40	-3.735	6.842	2.956	1.00	0.00
ATOM	605	CG	ASP	40	-4.140	5.854	1.876	1.00	0.00
ATOM	606	OD1	ASP	40	-3.828	6.090	0.694	1.00	0.00
ATOM	607	OD2	ASP	40	-4.752	4.825	2.221	1.00	0.00
ATOM	610	H	ASP	40	-1.117	7.229	2.452	1.00	0.00
ATOM	611	HA	ASP	40	-3.613	8.512	1.611	1.00	0.00
ATOM	612	1HB	ASP	40	-4.623	7.149	3.485	1.00	0.00
ATOM	613	2HB	ASP	40	-3.073	6.335	3.643	1.00	0.00
ATOM	614	N	PRO	41	-4.008	9.823	3.849	1.00	0.00
ATOM	615	CA	PRO	41	-4.039	10.823	4.913	1.00	0.00
ATOM	619	C	PRO	41	-4.148	10.184	6.295	1.00	0.00
ATOM	620	O	PRO	41	-4.861	10.667	7.171	1.00	0.00
ATOM	616	CB	PRO	41	-5.280	11.660	4.591	1.00	0.00
ATOM	617	CG	PRO	41	-6.144	10.819	3.702	1.00	0.00
ATOM	618	CD	PRO	41	-5.312	9.668	3.192	1.00	0.00
ATOM	621	HA	PRO	41	-3.160	11.451	4.880	1.00	0.00
ATOM	622	1HB	PRO	41	-4.976	12.570	4.093	1.00	0.00
ATOM	623	2HB	PRO	41	-5.789	11.907	5.510	1.00	0.00
ATOM	624	1HG	PRO	41	-6.494	11.416	2.872	1.00	0.00
ATOM	625	2HG	PRO	41	-6.983	10.442	4.265	1.00	0.00
ATOM	626	1HD	PRO	41	-5.204	9.716	2.120	1.00	0.00
ATOM	627	2HD	PRO	41	-5.760	8.728	3.475	1.00	0.00
ATOM	628	N	LEU	42	-3.407	9.101	6.474	1.00	0.00
ATOM	629	CA	LEU	42	-3.363	8.359	7.728	1.00	0.00
ATOM	634	C	LEU	42	-2.245	7.331	7.654	1.00	0.00
ATOM	635	O	LEU	42	-1.650	6.963	8.664	1.00	0.00
ATOM	630	CB	LEU	42	-4.695	7.649	8.018	1.00	0.00
ATOM	631	CG	LEU	42	-5.585	7.373	6.797	1.00	0.00
ATOM	632	CD1	LEU	42	-5.498	5.912	6.383	1.00	0.00
ATOM	633	CD2	LEU	42	-7.025	7.759	7.093	1.00	0.00
ATOM	636	H	LEU	42	-2.852	8.797	5.728	1.00	0.00
ATOM	637	HA	LEU	42	-3.144	9.060	8.522	1.00	0.00
ATOM	638	1HB	LEU	42	-5.257	8.257	8.713	1.00	0.00
ATOM	639	2HB	LEU	42	-4.472	6.706	8.494	1.00	0.00
ATOM	640	HG	LEU	42	-5.240	7.975	5.968	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.200	5.315	7.232	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.770	5.804	5.592	1.00	0.00
ATOM	643	3HD1	LEU	42	-6.464	5.580	6.031	1.00	0.00



ATOM	644	1HD2	LEU	42	-7.264	7.500	8.113	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.684	7.227	6.423	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.149	8.822	6.952	1.00	0.00
ATOM	647	N	HIS	43	-1.965	6.879	6.434	1.00	0.00
ATOM	648	CA	HIS	43	-0.916	5.894	6.188	1.00	0.00
ATOM	655	C	HIS	43	0.435	6.410	6.666	1.00	0.00
ATOM	656	O	HIS	43	1.101	5.774	7.480	1.00	0.00
ATOM	649	CB	HIS	43	-0.817	5.598	4.697	1.00	0.00
ATOM	650	CG	HIS	43	-1.633	4.427	4.222	1.00	0.00
ATOM	651	ND1	HIS	43	-1.276	3.656	3.135	1.00	0.00
ATOM	652	CD2	HIS	43	-2.831	3.945	4.641	1.00	0.00
ATOM	653	CE1	HIS	43	-2.221	2.765	2.903	1.00	0.00
ATOM	654	NE2	HIS	43	-3.174	2.916	3.802	1.00	0.00
ATOM	657	H	HIS	43	-2.480	7.219	5.676	1.00	0.00
ATOM	658	HA	HIS	43	-1.161	4.990	6.723	1.00	0.00
ATOM	659	1HB	HIS	43	0.216	5.410	4.459	1.00	0.00
ATOM	660	2HB	HIS	43	-1.147	6.469	4.151	1.00	0.00
ATOM	661	HD1	HIS	43	-0.435	3.724	2.628	1.00	0.00
ATOM	662	HD2	HIS	43	-3.410	4.307	5.481	1.00	0.00
ATOM	663	HE1	HIS	43	-2.214	2.032	2.108	1.00	0.00
ATOM	664	HE2	HIS	43	-4.074	2.536	3.723	1.00	0.00
ATOM	665	N	GLN	44	0.829	7.573	6.144	1.00	0.00
ATOM	666	CA	GLN	44	2.104	8.193	6.504	1.00	0.00
ATOM	672	C	GLN	44	2.153	8.494	7.992	1.00	0.00
ATOM	673	O	GLN	44	3.222	8.534	8.600	1.00	0.00
ATOM	667	CB	GLN	44	2.323	9.495	5.721	1.00	0.00
ATOM	668	CG	GLN	44	1.412	9.660	4.514	1.00	0.00
ATOM	669	CD	GLN	44	1.191	11.113	4.144	1.00	0.00
ATOM	670	OE1	GLN	44	0.253	11.746	4.618	1.00	0.00
ATOM	671	NE2	GLN	44	2.054	11.649	3.296	1.00	0.00
ATOM	674	H	GLN	44	0.251	8.023	5.496	1.00	0.00
ATOM	675	HA	GLN	44	2.894	7.498	6.260	1.00	0.00
ATOM	676	1HB	GLN	44	3.347	9.522	5.377	1.00	0.00
ATOM	677	2HB	GLN	44	2.157	10.330	6.384	1.00	0.00
ATOM	678	1HG	GLN	44	0.455	9.210	4.737	1.00	0.00
ATOM	679	2HG	GLN	44	1.857	9.155	3.670	1.00	0.00
ATOM	680	1HE2	GLN	44	2.781	11.086	2.953	1.00	0.00
ATOM	681	2HE2	GLN	44	1.930	12.588	3.043	1.00	0.00
ATOM	682	N	ALA	45	0.983	8.695	8.568	1.00	0.00
ATOM	683	CA	ALA	45	0.876	8.994	9.986	1.00	0.00
ATOM	685	C	ALA	45	1.180	7.762	10.825	1.00	0.00
ATOM	686	O	ALA	45	1.981	7.814	11.764	1.00	0.00
ATOM	684	CB	ALA	45	-0.507	9.531	10.310	1.00	0.00
ATOM	687	H	ALA	45	0.168	8.632	8.021	1.00	0.00
ATOM	688	HA	ALA	45	1.599	9.763	10.219	1.00	0.00
ATOM	689	1HB	ALA	45	-0.418	10.521	10.733	1.00	0.00
ATOM	690	2HB	ALA	45	-0.989	8.878	11.021	1.00	0.00
ATOM	691	3HB	ALA	45	-1.096	9.578	9.406	1.00	0.00
ATOM	692	N	MET	46	0.538	6.650	10.484	1.00	0.00
ATOM	693	CA	MET	46	0.737	5.406	11.212	1.00	0.00
ATOM	698	C	MET	46	2.142	4.861	11.002	1.00	0.00
ATOM	699	O	MET	46	2.705	4.219	11.888	1.00	0.00
ATOM	694	CB	MET	46	-0.290	4.365	10.779	1.00	0.00
ATOM	695	CG	MET	46	-0.778	3.497	11.921	1.00	0.00
ATOM	696	SD	MET	46	-2.472	2.951	11.693	1.00	0.00
ATOM	697	CE	MET	46	-3.306	4.029	12.846	1.00	0.00
ATOM	700	H	MET	46	-0.092	6.669	9.723	1.00	0.00
ATOM	701	HA	MET	46	0.601	5.614	12.263	1.00	0.00
ATOM	702	1HB	MET	46	0.155	3.724	10.032	1.00	0.00
ATOM	703	2HB	MET	46	-1.141	4.872	10.349	1.00	0.00
ATOM	704	1HG	MET	46	-0.719	4.064	12.839	1.00	0.00
ATOM	705	2HG	MET	46	-0.146	2.631	11.995	1.00	0.00
ATOM	706	1HE	MET	46	-2.751	4.951	12.943	1.00	0.00
ATOM	707	2HE	MET	46	-3.373	3.545	13.809	1.00	0.00
ATOM	708	3HE	MET	46	-4.300	4.245	12.480	1.00	0.00
ATOM	709	N	ARG	47	2.701	5.118	9.827	1.00	0.00
ATOM	710	CA	ARG	47	4.042	4.649	9.494	1.00	0.00
ATOM	718	C	ARG	47	5.091	5.247	10.429	1.00	0.00
ATOM	719	O	ARG	47	6.000	4.549	10.873	1.00	0.00
ATOM	711	CB	ARG	47	4.376	4.987	8.039	1.00	0.00
ATOM	712	CG	ARG	47	4.915	3.806	7.245	1.00	0.00
ATOM	713	CD	ARG	47	4.026	2.580	7.391	1.00	0.00
ATOM	714	NE	ARG	47	3.660	2.002	6.097	1.00	0.00



ATOM	715	CZ	ARG	47	2.413	1.658	5.764	1.00	0.00
ATOM	716	NH1	ARG	47	1.418	1.848	6.620	1.00	0.00
ATOM	717	NH2	ARG	47	2.162	1.128	4.574	1.00	0.00
ATOM	720	H	ARG	47	2.196	5.636	9.161	1.00	0.00
ATOM	721	HA	ARG	47	4.051	3.575	9.611	1.00	0.00
ATOM	722	1HB	ARG	47	5.120	5.770	8.026	1.00	0.00
ATOM	723	2HB	ARG	47	3.481	5.343	7.551	1.00	0.00
ATOM	724	1HG	ARG	47	5.906	3.566	7.602	1.00	0.00
ATOM	725	2HG	ARG	47	4.962	4.079	6.201	1.00	0.00
ATOM	726	1HD	ARG	47	3.126	2.866	7.915	1.00	0.00
ATOM	727	2HD	ARG	47	4.556	1.837	7.968	1.00	0.00
ATOM	728	HE	ARG	47	4.382	1.858	5.448	1.00	0.00
ATOM	729	1HH1	ARG	47	1.594	2.243	7.520	1.00	0.00
ATOM	730	2HH1	ARG	47	0.467	1.587	6.363	1.00	0.00
ATOM	731	1HH2	ARG	47	2.896	0.977	3.915	1.00	0.00
ATOM	732	2HH2	ARG	47	1.208	0.862	4.328	1.00	0.00
ATOM	733	N	ALA	48	4.948	6.530	10.744	1.00	0.00
ATOM	734	CA	ALA	48	5.885	7.202	11.638	1.00	0.00
ATOM	736	C	ALA	48	5.559	6.859	13.077	1.00	0.00
ATOM	737	O	ALA	48	6.415	6.917	13.957	1.00	0.00
ATOM	735	CB	ALA	48	5.851	8.707	11.419	1.00	0.00
ATOM	738	H	ALA	48	4.190	7.032	10.380	1.00	0.00
ATOM	739	HA	ALA	48	6.884	6.844	11.412	1.00	0.00
ATOM	740	1HB	ALA	48	6.676	8.997	10.787	1.00	0.00
ATOM	741	2HB	ALA	48	5.931	9.211	12.371	1.00	0.00
ATOM	742	3HB	ALA	48	4.920	8.979	10.945	1.00	0.00
ATOM	743	N	ALA	49	4.314	6.475	13.306	1.00	0.00
ATOM	744	CA	ALA	49	3.877	6.088	14.628	1.00	0.00
ATOM	746	C	ALA	49	4.517	4.764	14.994	1.00	0.00
ATOM	747	O	ALA	49	5.310	4.684	15.932	1.00	0.00
ATOM	745	CB	ALA	49	2.362	5.985	14.680	1.00	0.00
ATOM	748	H	ALA	49	3.681	6.432	12.556	1.00	0.00
ATOM	749	HA	ALA	49	4.199	6.846	15.329	1.00	0.00
ATOM	750	1HB	ALA	49	2.078	5.261	15.430	1.00	0.00
ATOM	751	2HB	ALA	49	1.990	5.670	13.718	1.00	0.00
ATOM	752	3HB	ALA	49	1.944	6.948	14.932	1.00	0.00
ATOM	753	N	GLY	50	4.163	3.735	14.231	1.00	0.00
ATOM	754	CA	GLY	50	4.695	2.406	14.451	1.00	0.00
ATOM	755	C	GLY	50	6.205	2.387	14.557	1.00	0.00
ATOM	756	O	GLY	50	6.742	1.798	15.482	1.00	0.00
ATOM	757	H	GLY	50	3.524	3.884	13.500	1.00	0.00
ATOM	758	1HA	GLY	50	4.396	1.772	13.630	1.00	0.00
ATOM	759	2HA	GLY	50	4.277	2.012	15.365	1.00	0.00
ATOM	760	N	ASP	51	6.881	3.038	13.616	1.00	0.00
ATOM	761	CA	ASP	51	8.344	3.093	13.609	1.00	0.00
ATOM	766	C	ASP	51	8.883	3.673	14.916	1.00	0.00
ATOM	767	O	ASP	51	9.854	3.164	15.488	1.00	0.00
ATOM	762	CB	ASP	51	8.833	3.929	12.422	1.00	0.00
ATOM	763	CG	ASP	51	10.127	3.394	11.834	1.00	0.00
ATOM	764	OD1	ASP	51	10.056	2.520	10.940	1.00	0.00
ATOM	765	OD2	ASP	51	11.208	3.848	12.262	1.00	0.00
ATOM	768	H	ASP	51	6.390	3.494	12.902	1.00	0.00
ATOM	769	HA	ASP	51	8.712	2.085	13.502	1.00	0.00
ATOM	770	1HB	ASP	51	8.995	4.949	12.746	1.00	0.00
ATOM	771	2HB	ASP	51	8.077	3.920	11.650	1.00	0.00
ATOM	772	N	GLU	52	8.239	4.732	15.395	1.00	0.00
ATOM	773	CA	GLU	52	8.645	5.374	16.636	1.00	0.00
ATOM	779	C	GLU	52	8.502	4.416	17.815	1.00	0.00
ATOM	780	O	GLU	52	9.389	4.321	18.664	1.00	0.00
ATOM	774	CB	GLU	52	7.816	6.637	16.881	1.00	0.00
ATOM	775	CG	GLU	52	8.116	7.321	18.206	1.00	0.00
ATOM	776	CD	GLU	52	7.893	8.817	18.155	1.00	0.00
ATOM	777	OE1	GLU	52	6.726	9.249	18.217	1.00	0.00
ATOM	778	OE2	GLU	52	8.887	9.565	18.061	1.00	0.00
ATOM	781	H	GLU	52	7.467	5.086	14.904	1.00	0.00
ATOM	782	HA	GLU	52	9.684	5.650	16.538	1.00	0.00
ATOM	783	1HB	GLU	52	6.769	6.374	16.866	1.00	0.00
ATOM	784	2HB	GLU	52	8.012	7.342	16.085	1.00	0.00
ATOM	785	1HG	GLU	52	9.147	7.134	18.466	1.00	0.00
ATOM	786	2HG	GLU	52	7.472	6.902	18.965	1.00	0.00
ATOM	787	N	PHE	53	7.385	3.702	17.867	1.00	0.00
ATOM	788	CA	PHE	53	7.148	2.756	18.950	1.00	0.00
ATOM	796	C	PHE	53	7.972	1.494	18.758	1.00	0.00



ATOM	797	O	PHE	53	8.364	0.859	19.725	1.00	0.00
ATOM	789	CB	PHE	53	5.668	2.412	19.070	1.00	0.00
ATOM	790	CG	PHE	53	4.997	3.092	20.233	1.00	0.00
ATOM	791	CD1	PHE	53	5.347	4.386	20.592	1.00	0.00
ATOM	792	CD2	PHE	53	4.018	2.441	20.965	1.00	0.00
ATOM	793	CE1	PHE	53	4.735	5.013	21.659	1.00	0.00
ATOM	794	CE2	PHE	53	3.403	3.065	22.034	1.00	0.00
ATOM	795	CZ	PHE	53	3.761	4.352	22.380	1.00	0.00
ATOM	798	H	PHE	53	6.707	3.811	17.162	1.00	0.00
ATOM	799	HA	PHE	53	7.467	3.230	19.866	1.00	0.00
ATOM	800	1HB	PHE	53	5.559	1.346	19.197	1.00	0.00
ATOM	801	2HB	PHE	53	5.160	2.718	18.167	1.00	0.00
ATOM	802	HD1	PHE	53	6.108	4.904	20.028	1.00	0.00
ATOM	803	HD2	PHE	53	3.737	1.433	20.695	1.00	0.00
ATOM	804	HE1	PHE	53	5.017	6.020	21.928	1.00	0.00
ATOM	805	HE2	PHE	53	2.640	2.546	22.597	1.00	0.00
ATOM	806	HZ	PHE	53	3.280	4.841	23.215	1.00	0.00
ATOM	807	N	GLU	54	8.254	1.152	17.513	1.00	0.00
ATOM	808	CA	GLU	54	9.061	-0.020	17.211	1.00	0.00
ATOM	814	C	GLU	54	10.483	0.216	17.725	1.00	0.00
ATOM	815	O	GLU	54	11.224	-0.722	18.029	1.00	0.00
ATOM	809	CB	GLU	54	9.034	-0.298	15.696	1.00	0.00
ATOM	810	CG	GLU	54	9.843	-1.516	15.267	1.00	0.00
ATOM	811	CD	GLU	54	9.203	-2.286	14.122	1.00	0.00
ATOM	812	OE1	GLU	54	8.536	-1.663	13.272	1.00	0.00
ATOM	813	OE2	GLU	54	9.379	-3.525	14.061	1.00	0.00
ATOM	816	H	GLU	54	7.926	1.712	16.773	1.00	0.00
ATOM	817	HA	GLU	54	8.636	-0.861	17.737	1.00	0.00
ATOM	818	1HB	GLU	54	9.411	0.570	15.168	1.00	0.00
ATOM	819	2HB	GLU	54	8.008	-0.462	15.399	1.00	0.00
ATOM	820	1HG	GLU	54	9.947	-2.177	16.116	1.00	0.00
ATOM	821	2HG	GLU	54	10.818	-1.184	14.952	1.00	0.00
ATOM	822	N	THR	55	10.837	1.492	17.849	1.00	0.00
ATOM	823	CA	THR	55	12.143	1.894	18.349	1.00	0.00
ATOM	827	C	THR	55	12.114	2.156	19.865	1.00	0.00
ATOM	828	O	THR	55	13.057	1.814	20.581	1.00	0.00
ATOM	824	CB	THR	55	12.628	3.167	17.623	1.00	0.00
ATOM	825	OG1	THR	55	12.742	2.917	16.214	1.00	0.00
ATOM	826	CG2	THR	55	13.967	3.643	18.171	1.00	0.00
ATOM	829	H	THR	55	10.188	2.186	17.602	1.00	0.00
ATOM	830	HA	THR	55	12.844	1.098	18.145	1.00	0.00
ATOM	831	HB	THR	55	11.896	3.950	17.778	1.00	0.00
ATOM	832	HG1	THR	55	11.862	2.763	15.838	1.00	0.00
ATOM	833	1HG2	THR	55	14.707	3.615	17.384	1.00	0.00
ATOM	834	2HG2	THR	55	14.276	2.997	18.979	1.00	0.00
ATOM	835	3HG2	THR	55	13.865	4.653	18.534	1.00	0.00
ATOM	836	N	ARG	56	11.043	2.791	20.342	1.00	0.00
ATOM	837	CA	ARG	56	10.915	3.132	21.763	1.00	0.00
ATOM	845	C	ARG	56	10.256	2.014	22.582	1.00	0.00
ATOM	846	O	ARG	56	10.805	1.560	23.584	1.00	0.00
ATOM	838	CB	ARG	56	10.104	4.428	21.924	1.00	0.00
ATOM	839	CG	ARG	56	10.878	5.702	21.590	1.00	0.00
ATOM	840	CD	ARG	56	10.194	6.942	22.163	1.00	0.00
ATOM	841	NE	ARG	56	9.968	7.982	21.153	1.00	0.00
ATOM	842	CZ	ARG	56	10.027	9.294	21.407	1.00	0.00
ATOM	843	NH1	ARG	56	10.378	9.732	22.609	1.00	0.00
ATOM	844	NH2	ARG	56	9.756	10.178	20.456	1.00	0.00
ATOM	847	H	ARG	56	10.333	3.060	19.718	1.00	0.00
ATOM	848	HA	ARG	56	11.908	3.300	22.151	1.00	0.00
ATOM	849	1HB	ARG	56	9.766	4.498	22.949	1.00	0.00
ATOM	850	2HB	ARG	56	9.242	4.378	21.276	1.00	0.00
ATOM	851	1HG	ARG	56	10.941	5.801	20.516	1.00	0.00
ATOM	852	2HG	ARG	56	11.874	5.627	22.004	1.00	0.00
ATOM	853	1HD	ARG	56	10.811	7.351	22.950	1.00	0.00
ATOM	854	2HD	ARG	56	9.242	6.648	22.576	1.00	0.00
ATOM	855	HE	ARG	56	9.746	7.687	20.241	1.00	0.00
ATOM	856	1HH1	ARG	56	10.613	9.084	23.343	1.00	0.00
ATOM	857	2HH1	ARG	56	10.407	10.728	22.790	1.00	0.00
ATOM	858	1HH2	ARG	56	9.501	9.871	19.524	1.00	0.00
ATOM	859	2HH2	ARG	56	9.800	11.162	20.661	1.00	0.00
ATOM	860	N	PHE	57	9.076	1.583	22.157	1.00	0.00
ATOM	861	CA	PHE	57	8.321	0.532	22.845	1.00	0.00
ATOM	869	C	PHE	57	8.765	-0.860	22.391	1.00	0.00



ATOM	870	O	PHE	57	8.017	-1.576	21.730	1.00	0.00
ATOM	862	CB	PHE	57	6.825	0.725	22.572	1.00	0.00
ATOM	863	CG	PHE	57	5.907	0.056	23.562	1.00	0.00
ATOM	864	CD1	PHE	57	6.258	-0.075	24.897	1.00	0.00
ATOM	865	CD2	PHE	57	4.676	-0.431	23.148	1.00	0.00
ATOM	866	CE1	PHE	57	5.401	-0.681	25.797	1.00	0.00
ATOM	867	CE2	PHE	57	3.816	-1.036	24.043	1.00	0.00
ATOM	868	CZ	PHE	57	4.177	-1.161	25.369	1.00	0.00
ATOM	871	H	PHE	57	8.689	1.985	21.349	1.00	0.00
ATOM	872	HA	PHE	57	8.502	0.628	23.905	1.00	0.00
ATOM	873	1HB	PHE	57	6.598	0.331	21.592	1.00	0.00
ATOM	874	2HB	PHE	57	6.603	1.780	22.584	1.00	0.00
ATOM	875	HD1	PHE	57	4.392	-0.336	22.110	1.00	0.00
ATOM	876	HD2	PHE	57	7.214	0.300	25.232	1.00	0.00
ATOM	877	HE1	PHE	57	2.860	-1.409	23.706	1.00	0.00
ATOM	878	HE2	PHE	57	5.687	-0.778	26.835	1.00	0.00
ATOM	879	HZ	PHE	57	3.500	-1.631	26.069	1.00	0.00
ATOM	880	N	ARG	58	9.982	-1.236	22.751	1.00	0.00
ATOM	881	CA	ARG	58	10.521	-2.540	22.374	1.00	0.00
ATOM	889	C	ARG	58	9.920	-3.657	23.224	1.00	0.00
ATOM	890	O	ARG	58	9.910	-4.822	22.821	1.00	0.00
ATOM	882	CB	ARG	58	12.039	-2.554	22.523	1.00	0.00
ATOM	883	CG	ARG	58	12.745	-1.443	21.766	1.00	0.00
ATOM	884	CD	ARG	58	14.051	-1.070	22.441	1.00	0.00
ATOM	885	NE	ARG	58	14.767	-0.032	21.708	1.00	0.00
ATOM	886	CZ	ARG	58	16.091	0.009	21.580	1.00	0.00
ATOM	887	NH1	ARG	58	16.843	-0.947	22.119	1.00	0.00
ATOM	888	NH2	ARG	58	16.658	1.001	20.906	1.00	0.00
ATOM	891	H	ARG	58	10.537	-0.620	23.278	1.00	0.00
ATOM	892	HA	ARG	58	10.268	-2.716	21.340	1.00	0.00
ATOM	893	1HB	ARG	58	12.413	-3.499	22.161	1.00	0.00
ATOM	894	2HB	ARG	58	12.285	-2.457	23.569	1.00	0.00
ATOM	895	1HG	ARG	58	12.104	-0.574	21.735	1.00	0.00
ATOM	896	2HG	ARG	58	12.951	-1.778	20.760	1.00	0.00
ATOM	897	1HD	ARG	58	14.676	-1.949	22.502	1.00	0.00
ATOM	898	2HD	ARG	58	13.838	-0.711	23.436	1.00	0.00
ATOM	899	HE	ARG	58	14.224	0.680	21.287	1.00	0.00
ATOM	900	1HH1	ARG	58	16.415	-1.700	22.622	1.00	0.00
ATOM	901	2HH1	ARG	58	17.843	-0.924	22.018	1.00	0.00
ATOM	902	1HH2	ARG	58	16.093	1.715	20.488	1.00	0.00
ATOM	903	2HH2	ARG	58	17.665	1.045	20.817	1.00	0.00
ATOM	904	N	ARG	59	9.428	-3.298	24.404	1.00	0.00
ATOM	905	CA	ARG	59	8.837	-4.269	25.326	1.00	0.00
ATOM	913	C	ARG	59	7.416	-4.657	24.917	1.00	0.00
ATOM	914	O	ARG	59	6.551	-4.848	25.767	1.00	0.00
ATOM	906	CB	ARG	59	8.837	-3.704	26.750	1.00	0.00
ATOM	907	CG	ARG	59	9.757	-4.450	27.704	1.00	0.00
ATOM	908	CD	ARG	59	9.179	-4.506	29.109	1.00	0.00
ATOM	909	NE	ARG	59	9.593	-3.362	29.919	1.00	0.00
ATOM	910	CZ	ARG	59	8.948	-2.943	31.008	1.00	0.00
ATOM	911	NH1	ARG	59	7.855	-3.568	31.431	1.00	0.00
ATOM	912	NH2	ARG	59	9.396	-1.895	31.681	1.00	0.00
ATOM	915	H	ARG	59	9.468	-2.358	24.669	1.00	0.00
ATOM	916	HA	ARG	59	9.453	-5.156	25.307	1.00	0.00
ATOM	917	1HB	ARG	59	7.832	-3.749	27.143	1.00	0.00
ATOM	918	2HB	ARG	59	9.154	-2.671	26.714	1.00	0.00
ATOM	919	1HG	ARG	59	10.712	-3.945	27.737	1.00	0.00
ATOM	920	2HG	ARG	59	9.892	-5.458	27.343	1.00	0.00
ATOM	921	1HD	ARG	59	9.516	-5.414	29.587	1.00	0.00
ATOM	922	2HD	ARG	59	8.101	-4.514	29.042	1.00	0.00
ATOM	923	HE	ARG	59	10.406	-2.874	29.632	1.00	0.00
ATOM	924	1HH1	ARG	59	7.500	-4.369	30.932	1.00	0.00
ATOM	925	2HH1	ARG	59	7.380	-3.242	32.255	1.00	0.00
ATOM	926	1HH2	ARG	59	10.221	-1.414	31.377	1.00	0.00
ATOM	927	2HH2	ARG	59	8.908	-1.576	32.505	1.00	0.00
ATOM	928	N	THR	60	7.184	-4.778	23.618	1.00	0.00
ATOM	929	CA	THR	60	5.874	-5.150	23.111	1.00	0.00
ATOM	933	C	THR	60	5.957	-6.438	22.291	1.00	0.00
ATOM	934	O	THR	60	4.940	-6.966	21.841	1.00	0.00
ATOM	930	CB	THR	60	5.259	-4.013	22.262	1.00	0.00
ATOM	931	OG1	THR	60	3.839	-4.168	22.186	1.00	0.00
ATOM	932	CG2	THR	60	5.848	-3.981	20.854	1.00	0.00
ATOM	935	H	THR	60	7.913	-4.615	22.984	1.00	0.00



ATOM	936	HA	THR	60	5.229	-5.323	23.961	1.00	0.00
ATOM	937	HB	THR	60	5.480	-3.070	22.745	1.00	0.00
ATOM	938	HG1	THR	60	3.624	-5.106	22.139	1.00	0.00
ATOM	939	1HG2	THR	60	6.655	-4.695	20.788	1.00	0.00
ATOM	940	2HG2	THR	60	6.225	-2.990	20.642	1.00	0.00
ATOM	941	3HG2	THR	60	5.082	-4.236	20.137	1.00	0.00
ATOM	942	N	PHE	61	7.175	-6.935	22.089	1.00	0.00
ATOM	943	CA	PHE	61	7.380	-8.149	21.306	1.00	0.00
ATOM	951	C	PHE	61	7.425	-9.393	22.187	1.00	0.00
ATOM	952	O	PHE	61	7.029	-10.476	21.762	1.00	0.00
ATOM	944	CB	PHE	61	8.663	-8.038	20.483	1.00	0.00
ATOM	945	CG	PHE	61	8.425	-7.578	19.073	1.00	0.00
ATOM	946	CD1	PHE	61	8.231	-6.235	18.791	1.00	0.00
ATOM	947	CD2	PHE	61	8.391	-8.489	18.030	1.00	0.00
ATOM	948	CE1	PHE	61	8.008	-5.809	17.495	1.00	0.00
ATOM	949	CE2	PHE	61	8.168	-8.070	16.733	1.00	0.00
ATOM	950	CZ	PHE	61	7.976	-6.728	16.465	1.00	0.00
ATOM	953	H	PHE	61	7.949	-6.469	22.465	1.00	0.00
ATOM	954	HA	PHE	61	6.545	-8.244	20.629	1.00	0.00
ATOM	955	1HB	PHE	61	9.142	-9.006	20.443	1.00	0.00
ATOM	956	2HB	PHE	61	9.327	-7.332	20.956	1.00	0.00
ATOM	957	HD1	PHE	61	8.542	-9.538	18.238	1.00	0.00
ATOM	958	HD2	PHE	61	8.256	-5.516	19.596	1.00	0.00
ATOM	959	HE1	PHE	61	8.145	-8.790	15.929	1.00	0.00
ATOM	960	HE2	PHE	61	7.859	-4.760	17.289	1.00	0.00
ATOM	961	HZ	PHE	61	7.801	-6.399	15.452	1.00	0.00
ATOM	962	N	SER	62	7.905	-9.236	23.410	1.00	0.00
ATOM	963	CA	SER	62	8.004	-10.348	24.348	1.00	0.00
ATOM	966	C	SER	62	6.625	-10.899	24.708	1.00	0.00
ATOM	967	O	SER	62	6.491	-12.062	25.101	1.00	0.00
ATOM	964	CB	SER	62	8.740	-9.879	25.603	1.00	0.00
ATOM	965	OG	SER	62	9.318	-8.596	25.393	1.00	0.00
ATOM	968	H	SER	62	8.209	-8.350	23.698	1.00	0.00
ATOM	969	HA	SER	62	8.574	-11.134	23.878	1.00	0.00
ATOM	970	1HB	SER	62	9.525	-10.580	25.844	1.00	0.00
ATOM	971	2HB	SER	62	8.043	-9.817	26.426	1.00	0.00
ATOM	972	HG	SER	62	10.260	-8.629	25.623	1.00	0.00
ATOM	973	N	ASP	63	5.605	-10.064	24.570	1.00	0.00
ATOM	974	CA	ASP	63	4.238	-10.467	24.884	1.00	0.00
ATOM	979	C	ASP	63	3.655	-11.318	23.770	1.00	0.00
ATOM	980	O	ASP	63	2.682	-12.044	23.976	1.00	0.00
ATOM	975	CB	ASP	63	3.359	-9.239	25.133	1.00	0.00
ATOM	976	CG	ASP	63	3.313	-8.853	26.600	1.00	0.00
ATOM	977	OD1	ASP	63	4.333	-9.040	27.293	1.00	0.00
ATOM	978	OD2	ASP	63	2.253	-8.376	27.061	1.00	0.00
ATOM	981	H	ASP	63	5.773	-9.151	24.256	1.00	0.00
ATOM	982	HA	ASP	63	4.269	-11.070	25.778	1.00	0.00
ATOM	983	1HB	ASP	63	2.354	-9.449	24.802	1.00	0.00
ATOM	984	2HB	ASP	63	3.752	-8.403	24.574	1.00	0.00
ATOM	985	N	LEU	64	4.268	-11.253	22.598	1.00	0.00
ATOM	986	CA	LEU	64	3.817	-12.048	21.465	1.00	0.00
ATOM	991	C	LEU	64	4.198	-13.496	21.714	1.00	0.00
ATOM	992	O	LEU	64	3.428	-14.420	21.445	1.00	0.00
ATOM	987	CB	LEU	64	4.451	-11.556	20.159	1.00	0.00
ATOM	988	CG	LEU	64	3.822	-10.311	19.518	1.00	0.00
ATOM	989	CD1	LEU	64	2.791	-9.657	20.429	1.00	0.00
ATOM	990	CD2	LEU	64	4.909	-9.316	19.153	1.00	0.00
ATOM	993	H	LEU	64	5.054	-10.673	22.497	1.00	0.00
ATOM	994	HA	LEU	64	2.741	-11.967	21.399	1.00	0.00
ATOM	995	1HB	LEU	64	4.401	-12.362	19.442	1.00	0.00
ATOM	996	2HB	LEU	64	5.489	-11.341	20.354	1.00	0.00
ATOM	997	HG	LEU	64	3.321	-10.601	18.608	1.00	0.00
ATOM	998	1HD1	LEU	64	1.997	-9.235	19.830	1.00	0.00
ATOM	999	2HD1	LEU	64	3.263	-8.873	21.004	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.382	-10.397	21.100	1.00	0.00
ATOM	1001	1HD2	LEU	64	4.458	-8.369	18.899	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.466	-9.689	18.307	1.00	0.00
ATOM	1003	3HD2	LEU	64	5.574	-9.186	19.994	1.00	0.00
ATOM	1004	N	ALA	65	5.390	-13.674	22.266	1.00	0.00
ATOM	1005	CA	ALA	65	5.893	-14.996	22.589	1.00	0.00
ATOM	1007	C	ALA	65	5.202	-15.524	23.831	1.00	0.00
ATOM	1008	O	ALA	65	4.762	-16.669	23.859	1.00	0.00
ATOM	1006	CB	ALA	65	7.398	-14.961	22.793	1.00	0.00



ATOM	1009	H	ALA	65	5.937	-12.888	22.477	1.00	0.00
ATOM	1010	HA	ALA	65	5.676	-15.651	21.758	1.00	0.00
ATOM	1011	1HB	ALA	65	7.618	-14.646	23.802	1.00	0.00
ATOM	1012	2HB	ALA	65	7.839	-14.266	22.093	1.00	0.00
ATOM	1013	3HB	ALA	65	7.805	-15.947	22.627	1.00	0.00
ATOM	1014	N	ALA	66	5.105	-14.672	24.850	1.00	0.00
ATOM	1015	CA	ALA	66	4.456	-15.039	26.108	1.00	0.00
ATOM	1017	C	ALA	66	3.063	-15.612	25.857	1.00	0.00
ATOM	1018	O	ALA	66	2.670	-16.606	26.464	1.00	0.00
ATOM	1016	CB	ALA	66	4.373	-13.830	27.024	1.00	0.00
ATOM	1019	H	ALA	66	5.479	-13.764	24.752	1.00	0.00
ATOM	1020	HA	ALA	66	5.060	-15.789	26.595	1.00	0.00
ATOM	1021	1HB	ALA	66	3.356	-13.468	27.052	1.00	0.00
ATOM	1022	2HB	ALA	66	5.023	-13.052	26.653	1.00	0.00
ATOM	1023	3HB	ALA	66	4.682	-14.112	28.020	1.00	0.00
ATOM	1024	N	GLN	67	2.330	-14.974	24.956	1.00	0.00
ATOM	1025	CA	GLN	67	0.981	-15.409	24.613	1.00	0.00
ATOM	1031	C	GLN	67	0.963	-16.752	23.885	1.00	0.00
ATOM	1032	O	GLN	67	0.348	-17.714	24.346	1.00	0.00
ATOM	1026	CB	GLN	67	0.300	-14.373	23.725	1.00	0.00
ATOM	1027	CG	GLN	67	-0.384	-13.259	24.485	1.00	0.00
ATOM	1028	CD	GLN	67	-0.920	-12.194	23.558	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.124	-12.102	23.325	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.026	-11.382	23.019	1.00	0.00
ATOM	1033	H	GLN	67	2.707	-14.180	24.509	1.00	0.00
ATOM	1034	HA	GLN	67	0.419	-15.502	25.530	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.442	-14.870	23.116	1.00	0.00
ATOM	1036	2HB	GLN	67	1.041	-13.930	23.077	1.00	0.00
ATOM	1037	1HG	GLN	67	0.327	-12.809	25.159	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.207	-13.675	25.050	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.921	-11.516	23.251	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.343	-10.683	22.411	1.00	0.00
ATOM	1041	N	LEU	68	1.594	-16.796	22.718	1.00	0.00
ATOM	1042	CA	LEU	68	1.594	-17.999	21.888	1.00	0.00
ATOM	1047	C	LEU	68	2.594	-19.062	22.344	1.00	0.00
ATOM	1048	O	LEU	68	2.858	-20.015	21.610	1.00	0.00
ATOM	1043	CB	LEU	68	1.855	-17.626	20.425	1.00	0.00
ATOM	1044	CG	LEU	68	0.676	-16.971	19.687	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.655	-17.351	20.322	1.00	0.00
ATOM	1046	CD2	LEU	68	0.838	-15.459	19.655	1.00	0.00
ATOM	1049	H	LEU	68	2.035	-15.985	22.382	1.00	0.00
ATOM	1050	HA	LEU	68	0.604	-18.427	21.954	1.00	0.00
ATOM	1051	1HB	LEU	68	2.126	-18.524	19.892	1.00	0.00
ATOM	1052	2HB	LEU	68	2.693	-16.944	20.396	1.00	0.00
ATOM	1053	HG	LEU	68	0.667	-17.323	18.666	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.786	-16.799	21.243	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.663	-18.410	20.535	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.460	-17.114	19.643	1.00	0.00
ATOM	1057	1HD2	LEU	68	1.614	-15.195	18.952	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.110	-15.106	20.640	1.00	0.00
ATOM	1059	3HD2	LEU	68	-0.093	-15.004	19.353	1.00	0.00
ATOM	1060	N	HIS	69	3.138	-18.926	23.544	1.00	0.00
ATOM	1061	CA	HIS	69	4.083	-19.919	24.043	1.00	0.00
ATOM	1068	C	HIS	69	3.323	-21.138	24.554	1.00	0.00
ATOM	1069	O	HIS	69	3.847	-22.251	24.569	1.00	0.00
ATOM	1062	CB	HIS	69	4.966	-19.341	25.159	1.00	0.00
ATOM	1063	CG	HIS	69	6.059	-20.271	25.601	1.00	0.00
ATOM	1064	ND1	HIS	69	7.314	-20.292	25.034	1.00	0.00
ATOM	1065	CD2	HIS	69	6.066	-21.233	26.552	1.00	0.00
ATOM	1066	CE1	HIS	69	8.041	-21.229	25.615	1.00	0.00
ATOM	1067	NE2	HIS	69	7.307	-21.817	26.540	1.00	0.00
ATOM	1070	H	HIS	69	2.898	-18.154	24.101	1.00	0.00
ATOM	1071	HA	HIS	69	4.708	-20.222	23.218	1.00	0.00
ATOM	1072	1HB	HIS	69	4.349	-19.119	26.018	1.00	0.00
ATOM	1073	2HB	HIS	69	5.427	-18.431	24.808	1.00	0.00
ATOM	1074	HD1	HIS	69	7.634	-19.702	24.307	1.00	0.00
ATOM	1075	HD2	HIS	69	5.242	-21.495	27.202	1.00	0.00
ATOM	1076	HE1	HIS	69	9.064	-21.472	25.374	1.00	0.00
ATOM	1077	HE2	HIS	69	7.505	-22.705	26.921	1.00	0.00
ATOM	1078	N	VAL	70	2.086	-20.916	24.971	1.00	0.00
ATOM	1079	CA	VAL	70	1.249	-21.993	25.485	1.00	0.00
ATOM	1083	C	VAL	70	0.438	-22.636	24.366	1.00	0.00
ATOM	1084	O	VAL	70	0.741	-23.743	23.925	1.00	0.00



ATOM	1080	CB	VAL	70	0.281	-21.502	26.589	1.00	0.00
ATOM	1081	CG1	VAL	70	0.298	-22.457	27.772	1.00	0.00
ATOM	1082	CG2	VAL	70	0.625	-20.087	27.037	1.00	0.00
ATOM	1085	H	VAL	70	1.726	-20.005	24.931	1.00	0.00
ATOM	1086	HA	VAL	70	1.900	-22.740	25.916	1.00	0.00
ATOM	1087	HB	VAL	70	-0.719	-21.493	26.180	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.700	-22.827	27.952	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.652	-21.936	28.649	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.955	-23.287	27.557	1.00	0.00
ATOM	1091	1HG2	VAL	70	1.282	-20.131	27.894	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.280	-19.564	27.305	1.00	0.00
ATOM	1093	3HG2	VAL	70	1.119	-19.563	26.232	1.00	0.00
ATOM	1094	N	THR	71	-0.599	-21.943	23.915	1.00	0.00
ATOM	1095	CA	THR	71	-1.461	-22.441	22.848	1.00	0.00
ATOM	1099	C	THR	71	-2.223	-21.284	22.207	1.00	0.00
ATOM	1100	O	THR	71	-2.633	-20.349	22.896	1.00	0.00
ATOM	1096	CB	THR	71	-2.483	-23.489	23.362	1.00	0.00
ATOM	1097	OG1	THR	71	-2.268	-23.770	24.752	1.00	0.00
ATOM	1098	CG2	THR	71	-2.383	-24.782	22.564	1.00	0.00
ATOM	1101	H	THR	71	-0.795	-21.064	24.307	1.00	0.00
ATOM	1102	HA	THR	71	-0.836	-22.909	22.102	1.00	0.00
ATOM	1103	HB	THR	71	-3.477	-23.086	23.235	1.00	0.00
ATOM	1104	HG1	THR	71	-1.328	-23.696	24.944	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.799	-24.630	21.579	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.930	-25.561	23.072	1.00	0.00
ATOM	1107	3HG2	THR	71	-1.345	-25.070	22.474	1.00	0.00
ATOM	1108	N	PRO	72	-2.422	-21.329	20.881	1.00	0.00
ATOM	1109	CA	PRO	72	-3.137	-20.286	20.147	1.00	0.00
ATOM	1113	C	PRO	72	-4.649	-20.368	20.359	1.00	0.00
ATOM	1114	O	PRO	72	-5.134	-21.189	21.139	1.00	0.00
ATOM	1110	CB	PRO	72	-2.792	-20.566	18.676	1.00	0.00
ATOM	1111	CG	PRO	72	-1.781	-21.667	18.689	1.00	0.00
ATOM	1112	CD	PRO	72	-1.964	-22.395	19.986	1.00	0.00
ATOM	1115	HA	PRO	72	-2.789	-19.302	20.420	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.388	-19.671	18.227	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.687	-20.861	18.147	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.787	-21.250	18.630	1.00	0.00
ATOM	1119	2HG	PRO	72	-1.956	-22.335	17.857	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.027	-22.810	20.325	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.711	-23.168	19.887	1.00	0.00
ATOM	1122	N	GLY	73	-5.394	-19.520	19.656	1.00	0.00
ATOM	1123	CA	GLY	73	-6.843	-19.528	19.778	1.00	0.00
ATOM	1124	C	GLY	73	-7.352	-18.604	20.869	1.00	0.00
ATOM	1125	O	GLY	73	-8.030	-17.615	20.584	1.00	0.00
ATOM	1126	H	GLY	73	-4.958	-18.890	19.041	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.167	-20.536	19.996	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.273	-19.222	18.836	1.00	0.00
ATOM	1129	N	SER	74	-7.028	-18.925	22.117	1.00	0.00
ATOM	1130	CA	SER	74	-7.457	-18.130	23.270	1.00	0.00
ATOM	1133	C	SER	74	-6.672	-16.819	23.382	1.00	0.00
ATOM	1134	O	SER	74	-6.282	-16.400	24.471	1.00	0.00
ATOM	1131	CB	SER	74	-7.288	-18.956	24.546	1.00	0.00
ATOM	1132	OG	SER	74	-7.117	-20.334	24.240	1.00	0.00
ATOM	1135	H	SER	74	-6.487	-19.730	22.275	1.00	0.00
ATOM	1136	HA	SER	74	-8.503	-17.896	23.141	1.00	0.00
ATOM	1137	1HB	SER	74	-8.167	-18.843	25.164	1.00	0.00
ATOM	1138	2HB	SER	74	-6.420	-18.608	25.086	1.00	0.00
ATOM	1139	HG	SER	74	-6.388	-20.689	24.762	1.00	0.00
ATOM	1140	N	ALA	75	-6.452	-16.171	22.251	1.00	0.00
ATOM	1141	CA	ALA	75	-5.726	-14.916	22.217	1.00	0.00
ATOM	1143	C	ALA	75	-6.684	-13.735	22.198	1.00	0.00
ATOM	1144	O	ALA	75	-6.308	-12.616	22.542	1.00	0.00
ATOM	1142	CB	ALA	75	-4.816	-14.872	21.004	1.00	0.00
ATOM	1145	H	ALA	75	-6.793	-16.551	21.411	1.00	0.00
ATOM	1146	HA	ALA	75	-5.114	-14.858	23.098	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.094	-14.079	21.125	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.410	-14.689	20.120	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.303	-15.817	20.904	1.00	0.00
ATOM	1150	N	GLN	76	-7.924	-13.988	21.782	1.00	0.00
ATOM	1151	CA	GLN	76	-8.930	-12.933	21.701	1.00	0.00
ATOM	1157	C	GLN	76	-9.251	-12.357	23.065	1.00	0.00
ATOM	1158	O	GLN	76	-9.453	-11.155	23.194	1.00	0.00
ATOM	1152	CB	GLN	76	-10.208	-13.424	21.012	1.00	0.00



ATOM	1153	CG	GLN	76	-10.676	-14.797	21.452	1.00	0.00
ATOM	1154	CD	GLN	76	-12.089	-15.100	20.997	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.505	-16.256	20.951	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.840	-14.063	20.661	1.00	0.00
ATOM	1159	H	GLN	76	-8.161	-14.899	21.513	1.00	0.00
ATOM	1160	HA	GLN	76	-8.505	-12.140	21.099	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.035	-13.454	19.946	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.001	-12.722	21.216	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.641	-14.841	22.524	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.011	-15.540	21.039	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.450	-13.167	20.723	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.761	-14.234	20.367	1.00	0.00
ATOM	1167	N	GLN	77	-9.292	-13.205	24.081	1.00	0.00
ATOM	1168	CA	GLN	77	-9.592	-12.742	25.429	1.00	0.00
ATOM	1174	C	GLN	77	-8.448	-11.894	25.963	1.00	0.00
ATOM	1175	O	GLN	77	-8.670	-10.919	26.672	1.00	0.00
ATOM	1169	CB	GLN	77	-9.863	-13.924	26.366	1.00	0.00
ATOM	1170	CG	GLN	77	-10.645	-15.057	25.715	1.00	0.00
ATOM	1171	CD	GLN	77	-12.044	-14.643	25.301	1.00	0.00
ATOM	1172	OE1	GLN	77	-12.228	-13.886	24.349	1.00	0.00
ATOM	1173	NE2	GLN	77	-13.042	-15.141	26.011	1.00	0.00
ATOM	1176	H	GLN	77	-9.120	-14.158	23.923	1.00	0.00
ATOM	1177	HA	GLN	77	-10.476	-12.124	25.371	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.422	-13.573	27.219	1.00	0.00
ATOM	1179	2HB	GLN	77	-8.917	-14.320	26.706	1.00	0.00
ATOM	1180	1HG	GLN	77	-10.719	-15.874	26.418	1.00	0.00
ATOM	1181	2HG	GLN	77	-10.111	-15.386	24.837	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.826	-15.750	26.760	1.00	0.00
ATOM	1183	2HE2	GLN	77	-13.958	-14.892	25.761	1.00	0.00
ATOM	1184	N	ARG	78	-7.229	-12.257	25.596	1.00	0.00
ATOM	1185	CA	ARG	78	-6.054	-11.512	26.022	1.00	0.00
ATOM	1193	C	ARG	78	-6.029	-10.154	25.336	1.00	0.00
ATOM	1194	O	ARG	78	-5.833	-9.118	25.978	1.00	0.00
ATOM	1186	CB	ARG	78	-4.781	-12.290	25.680	1.00	0.00
ATOM	1187	CG	ARG	78	-3.942	-12.670	26.886	1.00	0.00
ATOM	1188	CD	ARG	78	-3.316	-14.042	26.706	1.00	0.00
ATOM	1189	NE	ARG	78	-3.514	-14.883	27.882	1.00	0.00
ATOM	1190	CZ	ARG	78	-2.639	-14.998	28.879	1.00	0.00
ATOM	1191	NH1	ARG	78	-1.485	-14.339	28.849	1.00	0.00
ATOM	1192	NH2	ARG	78	-2.930	-15.767	29.913	1.00	0.00
ATOM	1195	H	ARG	78	-7.118	-13.034	25.011	1.00	0.00
ATOM	1196	HA	ARG	78	-6.117	-11.364	27.087	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.173	-11.685	25.022	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.057	-13.197	25.163	1.00	0.00
ATOM	1199	1HG	ARG	78	-4.572	-12.682	27.762	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.156	-11.939	27.013	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.256	-13.926	26.529	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.771	-14.522	25.852	1.00	0.00
ATOM	1203	HE	ARG	78	-4.360	-15.385	27.937	1.00	0.00
ATOM	1204	1HH1	ARG	78	-1.259	-13.746	28.072	1.00	0.00
ATOM	1205	2HH1	ARG	78	-0.834	-14.430	29.604	1.00	0.00
ATOM	1206	1HH2	ARG	78	-3.809	-16.261	29.942	1.00	0.00
ATOM	1207	2HH2	ARG	78	-2.277	-15.861	30.677	1.00	0.00
ATOM	1208	N	PHE	79	-6.234	-10.171	24.024	1.00	0.00
ATOM	1209	CA	PHE	79	-6.239	-8.954	23.233	1.00	0.00
ATOM	1217	C	PHE	79	-7.349	-8.012	23.684	1.00	0.00
ATOM	1218	O	PHE	79	-7.110	-6.818	23.877	1.00	0.00
ATOM	1210	CB	PHE	79	-6.402	-9.282	21.749	1.00	0.00
ATOM	1211	CG	PHE	79	-5.818	-8.242	20.836	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.448	-8.051	20.769	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.640	-7.456	20.045	1.00	0.00
ATOM	1214	CE1	PHE	79	-3.908	-7.096	19.929	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.107	-6.501	19.203	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.739	-6.320	19.145	1.00	0.00
ATOM	1219	H	PHE	79	-6.386	-11.034	23.575	1.00	0.00
ATOM	1220	HA	PHE	79	-5.287	-8.464	23.377	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.453	-9.372	21.521	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.911	-10.220	21.538	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.711	-7.597	20.090	1.00	0.00
ATOM	1224	HD2	PHE	79	-3.798	-8.657	21.383	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.758	-5.896	18.590	1.00	0.00
ATOM	1226	HE2	PHE	79	-2.838	-6.957	19.886	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.319	-5.573	18.487	1.00	0.00



ATOM	1228	N	THR	80	-8.562	-8.545	23.849	1.00	0.00
ATOM	1229	CA	THR	80	-9.693	-7.725	24.274	1.00	0.00
ATOM	1233	C	THR	80	-9.423	-7.057	25.619	1.00	0.00
ATOM	1234	O	THR	80	-9.847	-5.922	25.840	1.00	0.00
ATOM	1230	CB	THR	80	-11.008	-8.525	24.363	1.00	0.00
ATOM	1231	OG1	THR	80	-10.775	-9.806	24.953	1.00	0.00
ATOM	1232	CG2	THR	80	-11.625	-8.699	22.984	1.00	0.00
ATOM	1235	H	THR	80	-8.698	-9.507	23.673	1.00	0.00
ATOM	1236	HA	THR	80	-9.825	-6.950	23.533	1.00	0.00
ATOM	1237	HB	THR	80	-11.701	-7.976	24.981	1.00	0.00
ATOM	1238	HG1	THR	80	-10.460	-10.416	24.275	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.905	-7.733	22.592	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.500	-9.327	23.058	1.00	0.00
ATOM	1241	3HG2	THR	80	-10.905	-9.161	22.324	1.00	0.00
ATOM	1242	N	GLN	81	-8.706	-7.749	26.509	1.00	0.00
ATOM	1243	CA	GLN	81	-8.388	-7.185	27.817	1.00	0.00
ATOM	1249	C	GLN	81	-7.584	-5.908	27.655	1.00	0.00
ATOM	1250	O	GLN	81	-7.982	-4.848	28.130	1.00	0.00
ATOM	1244	CB	GLN	81	-7.600	-8.179	28.671	1.00	0.00
ATOM	1245	CG	GLN	81	-8.447	-9.322	29.186	1.00	0.00
ATOM	1246	CD	GLN	81	-9.626	-8.853	30.015	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.461	-8.353	31.125	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.825	-9.012	29.477	1.00	0.00
ATOM	1251	H	GLN	81	-8.378	-8.651	26.278	1.00	0.00
ATOM	1252	HA	GLN	81	-9.317	-6.956	28.311	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.183	-7.658	29.519	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.798	-8.592	28.078	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.831	-9.971	29.791	1.00	0.00
ATOM	1256	2HG	GLN	81	-8.822	-9.868	28.337	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.883	-9.420	28.587	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.604	-8.715	29.991	1.00	0.00
ATOM	1259	N	VAL	82	-6.459	-6.022	26.963	1.00	0.00
ATOM	1260	CA	VAL	82	-5.586	-4.878	26.716	1.00	0.00
ATOM	1264	C	VAL	82	-6.326	-3.775	25.968	1.00	0.00
ATOM	1265	O	VAL	82	-6.126	-2.592	26.232	1.00	0.00
ATOM	1261	CB	VAL	82	-4.342	-5.274	25.900	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.325	-4.144	25.900	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.729	-6.555	26.440	1.00	0.00
ATOM	1266	H	VAL	82	-6.215	-6.904	26.603	1.00	0.00
ATOM	1267	HA	VAL	82	-5.257	-4.493	27.674	1.00	0.00
ATOM	1268	HB	VAL	82	-4.644	-5.450	24.879	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.838	-3.200	25.782	1.00	0.00
ATOM	1270	2HG1	VAL	82	-2.633	-4.283	25.084	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.785	-4.146	26.835	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.350	-6.382	27.436	1.00	0.00
ATOM	1273	2HG2	VAL	82	-2.918	-6.866	25.797	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.480	-7.330	26.471	1.00	0.00
ATOM	1275	N	SER	83	-7.182	-4.175	25.038	1.00	0.00
ATOM	1276	CA	SER	83	-7.951	-3.222	24.252	1.00	0.00
ATOM	1279	C	SER	83	-8.877	-2.399	25.144	1.00	0.00
ATOM	1280	O	SER	83	-8.941	-1.175	25.020	1.00	0.00
ATOM	1277	CB	SER	83	-8.764	-3.950	23.179	1.00	0.00
ATOM	1278	OG	SER	83	-7.929	-4.756	22.365	1.00	0.00
ATOM	1281	H	SER	83	-7.301	-5.135	24.879	1.00	0.00
ATOM	1282	HA	SER	83	-7.253	-2.554	23.768	1.00	0.00
ATOM	1283	1HB	SER	83	-9.264	-3.224	22.555	1.00	0.00
ATOM	1284	2HB	SER	83	-9.499	-4.582	23.656	1.00	0.00
ATOM	1285	HG	SER	83	-7.480	-5.413	22.912	1.00	0.00
ATOM	1286	N	ASP	84	-9.584	-3.072	26.045	1.00	0.00
ATOM	1287	CA	ASP	84	-10.502	-2.389	26.951	1.00	0.00
ATOM	1292	C	ASP	84	-9.741	-1.549	27.963	1.00	0.00
ATOM	1293	O	ASP	84	-10.176	-0.458	28.333	1.00	0.00
ATOM	1288	CB	ASP	84	-11.410	-3.385	27.669	1.00	0.00
ATOM	1289	CG	ASP	84	-12.820	-2.852	27.827	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.489	-2.604	26.795	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.263	-2.667	28.977	1.00	0.00
ATOM	1294	H	ASP	84	-9.486	-4.050	26.105	1.00	0.00
ATOM	1295	HA	ASP	84	-11.117	-1.730	26.353	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.008	-3.589	28.650	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.451	-4.304	27.101	1.00	0.00
ATOM	1298	N	GLU	85	-8.594	-2.053	28.400	1.00	0.00
ATOM	1299	CA	GLU	85	-7.768	-1.335	29.360	1.00	0.00
ATOM	1305	C	GLU	85	-7.198	-0.075	28.714	1.00	0.00



ATOM	1306	O	GLU	85	-7.011	0.944	29.374	1.00	0.00
ATOM	1300	CB	GLU	85	-6.631	-2.223	29.876	1.00	0.00
ATOM	1301	CG	GLU	85	-7.102	-3.434	30.673	1.00	0.00
ATOM	1302	CD	GLU	85	-7.819	-3.063	31.956	1.00	0.00
ATOM	1303	OE1	GLU	85	-7.142	-2.685	32.934	1.00	0.00
ATOM	1304	OE2	GLU	85	-9.063	-3.154	31.996	1.00	0.00
ATOM	1307	H	GLU	85	-8.294	-2.926	28.065	1.00	0.00
ATOM	1308	HA	GLU	85	-8.397	-1.046	30.186	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.989	-1.630	30.512	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.059	-2.578	29.033	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.242	-4.040	30.920	1.00	0.00
ATOM	1312	2HG	GLU	85	-7.778	-4.010	30.058	1.00	0.00
ATOM	1313	N	LEU	86	-6.932	-0.157	27.417	1.00	0.00
ATOM	1314	CA	LEU	86	-6.387	0.967	26.670	1.00	0.00
ATOM	1319	C	LEU	86	-7.468	2.000	26.358	1.00	0.00
ATOM	1320	O	LEU	86	-7.214	3.205	26.370	1.00	0.00
ATOM	1315	CB	LEU	86	-5.742	0.473	25.370	1.00	0.00
ATOM	1316	CG	LEU	86	-4.227	0.683	25.276	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.546	0.233	26.557	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.650	-0.063	24.082	1.00	0.00
ATOM	1321	H	LEU	86	-7.107	-1.002	26.949	1.00	0.00
ATOM	1322	HA	LEU	86	-5.629	1.433	27.280	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.207	0.988	24.543	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.945	-0.584	25.274	1.00	0.00
ATOM	1325	HG	LEU	86	-4.024	1.736	25.143	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.656	0.821	26.718	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.278	-0.810	26.474	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.221	0.366	27.390	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.722	0.555	23.200	1.00	0.00
ATOM	1330	2HD2	LEU	86	-4.201	-0.979	23.927	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.611	-0.298	24.272	1.00	0.00
ATOM	1332	N	PHE	87	-8.676	1.529	26.076	1.00	0.00
ATOM	1333	CA	PHE	87	-9.779	2.428	25.758	1.00	0.00
ATOM	1341	C	PHE	87	-10.468	2.923	27.027	1.00	0.00
ATOM	1342	O	PHE	87	-11.363	3.768	26.967	1.00	0.00
ATOM	1334	CB	PHE	87	-10.796	1.734	24.846	1.00	0.00
ATOM	1335	CG	PHE	87	-11.866	2.658	24.329	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.549	3.684	23.453	1.00	0.00
ATOM	1337	CD2	PHE	87	-13.184	2.513	24.734	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.525	4.544	22.988	1.00	0.00
ATOM	1339	CE2	PHE	87	-14.163	3.373	24.275	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.833	4.390	23.401	1.00	0.00
ATOM	1343	H	PHE	87	-8.828	0.556	26.078	1.00	0.00
ATOM	1344	HA	PHE	87	-9.368	3.279	25.236	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.280	0.940	25.395	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.280	1.314	23.996	1.00	0.00
ATOM	1347	HD1	PHE	87	-13.443	1.718	25.418	1.00	0.00
ATOM	1348	HD2	PHE	87	-10.526	3.807	23.128	1.00	0.00
ATOM	1349	HE1	PHE	87	-15.188	3.249	24.599	1.00	0.00
ATOM	1350	HE2	PHE	87	-12.264	5.339	22.304	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.597	5.063	23.041	1.00	0.00
ATOM	1352	N	GLN	88	-10.055	2.391	28.170	1.00	0.00
ATOM	1353	CA	GLN	88	-10.644	2.775	29.447	1.00	0.00
ATOM	1359	C	GLN	88	-10.608	4.286	29.649	1.00	0.00
ATOM	1360	O	GLN	88	-11.547	4.866	30.191	1.00	0.00
ATOM	1354	CB	GLN	88	-9.941	2.077	30.605	1.00	0.00
ATOM	1355	CG	GLN	88	-10.909	1.459	31.599	1.00	0.00
ATOM	1356	CD	GLN	88	-10.410	0.152	32.169	1.00	0.00
ATOM	1357	OE1	GLN	88	-10.179	0.036	33.373	1.00	0.00
ATOM	1358	NE2	GLN	88	-10.246	-0.840	31.311	1.00	0.00
ATOM	1361	H	GLN	88	-9.346	1.712	28.155	1.00	0.00
ATOM	1362	HA	GLN	88	-11.676	2.460	29.431	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.329	2.796	31.130	1.00	0.00
ATOM	1364	2HB	GLN	88	-9.309	1.294	30.211	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.852	1.283	31.101	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.059	2.153	32.412	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.456	-0.676	30.365	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.910	-1.707	31.653	1.00	0.00
ATOM	1369	N	GLY	89	-9.536	4.926	29.201	1.00	0.00
ATOM	1370	CA	GLY	89	-9.442	6.360	29.348	1.00	0.00
ATOM	1371	C	GLY	89	-8.167	6.940	28.776	1.00	0.00
ATOM	1372	O	GLY	89	-7.397	7.571	29.498	1.00	0.00
ATOM	1373	H	GLY	89	-8.815	4.423	28.766	1.00	0.00



ATOM	1374	1HA	GLY	89	-9.491	6.602	30.399	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.283	6.815	28.847	1.00	0.00
ATOM	1376	N	GLY	90	-7.943	6.753	27.478	1.00	0.00
ATOM	1377	CA	GLY	90	-6.750	7.308	26.870	1.00	0.00
ATOM	1378	C	GLY	90	-6.434	6.790	25.472	1.00	0.00
ATOM	1379	O	GLY	90	-5.287	6.430	25.208	1.00	0.00
ATOM	1380	H	GLY	90	-8.592	6.258	26.935	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.911	7.091	27.512	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.866	8.379	26.813	1.00	0.00
ATOM	1383	N	PRO	91	-7.399	6.775	24.524	1.00	0.00
ATOM	1384	CA	PRO	91	-7.135	6.328	23.155	1.00	0.00
ATOM	1388	C	PRO	91	-6.478	7.425	22.319	1.00	0.00
ATOM	1389	O	PRO	91	-6.791	7.602	21.146	1.00	0.00
ATOM	1385	CB	PRO	91	-8.516	6.010	22.592	1.00	0.00
ATOM	1386	CG	PRO	91	-9.508	6.703	23.459	1.00	0.00
ATOM	1387	CD	PRO	91	-8.792	7.217	24.689	1.00	0.00
ATOM	1390	HA	PRO	91	-6.519	5.441	23.137	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.668	4.943	22.594	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.580	6.387	21.580	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.294	6.014	23.735	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.930	7.525	22.911	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.226	6.785	25.580	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.845	8.294	24.734	1.00	0.00
ATOM	1397	N	ASN	92	-5.575	8.162	22.947	1.00	0.00
ATOM	1398	CA	ASN	92	-4.875	9.259	22.290	1.00	0.00
ATOM	1403	C	ASN	92	-3.895	8.750	21.248	1.00	0.00
ATOM	1404	O	ASN	92	-3.531	7.577	21.258	1.00	0.00
ATOM	1399	CB	ASN	92	-4.144	10.113	23.323	1.00	0.00
ATOM	1400	CG	ASN	92	-4.601	11.555	23.290	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.552	12.207	22.250	1.00	0.00
ATOM	1402	ND2	ASN	92	-5.042	12.063	24.430	1.00	0.00
ATOM	1405	H	ASN	92	-5.382	7.965	23.885	1.00	0.00
ATOM	1406	HA	ASN	92	-5.615	9.870	21.797	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.084	10.083	23.122	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.333	9.715	24.309	1.00	0.00
ATOM	1409	1HD2	ASN	92	-5.048	11.488	25.223	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.338	12.997	24.436	1.00	0.00
ATOM	1411	N	TRP	93	-3.471	9.642	20.349	1.00	0.00
ATOM	1412	CA	TRP	93	-2.529	9.291	19.280	1.00	0.00
ATOM	1423	C	TRP	93	-1.270	8.626	19.835	1.00	0.00
ATOM	1424	O	TRP	93	-0.642	7.820	19.153	1.00	0.00
ATOM	1413	CB	TRP	93	-2.137	10.523	18.459	1.00	0.00
ATOM	1414	CG	TRP	93	-3.259	11.492	18.222	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.376	12.742	18.755	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.416	11.304	17.387	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.524	13.340	18.309	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.179	12.482	17.471	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.882	10.261	16.574	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.380	12.648	16.786	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.078	10.433	15.891	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.809	11.618	16.001	1.00	0.00
ATOM	1425	H	TRP	93	-3.807	10.563	20.401	1.00	0.00
ATOM	1426	HA	TRP	93	-3.025	8.585	18.628	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.767	10.199	17.497	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.352	11.052	18.977	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.658	13.182	19.431	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.830	14.248	18.545	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.331	9.337	16.475	1.00	0.00
ATOM	1432	HZ2	TRP	93	-6.957	13.556	16.857	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.458	9.646	15.255	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.734	11.707	15.451	1.00	0.00
ATOM	1435	N	GLY	94	-0.916	8.952	21.078	1.00	0.00
ATOM	1436	CA	GLY	94	0.253	8.356	21.695	1.00	0.00
ATOM	1437	C	GLY	94	0.077	6.859	21.865	1.00	0.00
ATOM	1438	O	GLY	94	0.980	6.075	21.582	1.00	0.00
ATOM	1439	H	GLY	94	-1.462	9.587	21.581	1.00	0.00
ATOM	1440	1HA	GLY	94	0.407	8.804	22.665	1.00	0.00
ATOM	1441	2HA	GLY	94	1.117	8.546	21.075	1.00	0.00
ATOM	1442	N	ARG	95	-1.108	6.469	22.315	1.00	0.00
ATOM	1443	CA	ARG	95	-1.435	5.065	22.508	1.00	0.00
ATOM	1451	C	ARG	95	-1.941	4.447	21.210	1.00	0.00
ATOM	1452	O	ARG	95	-1.858	3.233	21.026	1.00	0.00
ATOM	1444	CB	ARG	95	-2.483	4.912	23.612	1.00	0.00



ATOM	1445	CG	ARG	95	-2.278	3.682	24.479	1.00	0.00
ATOM	1446	CD	ARG	95	-1.062	3.828	25.380	1.00	0.00
ATOM	1447	NE	ARG	95	-0.525	2.530	25.791	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.589	2.058	27.038	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.136	2.788	28.001	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.106	0.853	27.322	1.00	0.00
ATOM	1453	H	ARG	95	-1.788	7.145	22.509	1.00	0.00
ATOM	1454	HA	ARG	95	-0.531	4.555	22.802	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.461	4.847	23.158	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.449	5.784	24.248	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.141	2.821	23.840	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.153	3.539	25.094	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.346	4.386	26.259	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.297	4.368	24.843	1.00	0.00
ATOM	1461	HE	ARG	95	-0.110	1.976	25.096	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.504	3.703	27.801	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.195	2.425	28.935	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.310	0.292	26.603	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.166	0.494	28.259	1.00	0.00
ATOM	1466	N	LEU	96	-2.451	5.295	20.313	1.00	0.00
ATOM	1467	CA	LEU	96	-2.968	4.856	19.014	1.00	0.00
ATOM	1472	C	LEU	96	-1.899	4.072	18.265	1.00	0.00
ATOM	1473	O	LEU	96	-2.194	3.142	17.507	1.00	0.00
ATOM	1468	CB	LEU	96	-3.405	6.071	18.184	1.00	0.00
ATOM	1469	CG	LEU	96	-4.689	5.908	17.354	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.413	6.234	15.895	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.268	4.505	17.483	1.00	0.00
ATOM	1474	H	LEU	96	-2.478	6.252	20.532	1.00	0.00
ATOM	1475	HA	LEU	96	-3.820	4.217	19.188	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.600	6.321	17.509	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.550	6.901	18.860	1.00	0.00
ATOM	1478	HG	LEU	96	-5.428	6.610	17.713	1.00	0.00
ATOM	1479	1HD1	LEU	96	-5.176	5.787	15.276	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.447	5.840	15.615	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.418	7.305	15.757	1.00	0.00
ATOM	1482	1HD2	LEU	96	-4.471	3.805	17.687	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.760	4.232	16.562	1.00	0.00
ATOM	1484	3HD2	LEU	96	-5.981	4.484	18.293	1.00	0.00
ATOM	1485	N	VAL	97	-0.653	4.441	18.521	1.00	0.00
ATOM	1486	CA	VAL	97	0.481	3.775	17.917	1.00	0.00
ATOM	1490	C	VAL	97	0.485	2.311	18.328	1.00	0.00
ATOM	1491	O	VAL	97	0.466	1.411	17.490	1.00	0.00
ATOM	1487	CB	VAL	97	1.804	4.414	18.365	1.00	0.00
ATOM	1488	CG1	VAL	97	2.957	3.770	17.632	1.00	0.00
ATOM	1489	CG2	VAL	97	1.788	5.919	18.142	1.00	0.00
ATOM	1492	H	VAL	97	-0.495	5.170	19.161	1.00	0.00
ATOM	1493	HA	VAL	97	0.403	3.852	16.837	1.00	0.00
ATOM	1494	HB	VAL	97	1.929	4.229	19.422	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.579	3.004	16.972	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.635	3.329	18.346	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.478	4.519	17.054	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.784	6.293	18.272	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.127	6.138	17.140	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.445	6.397	18.855	1.00	0.00
ATOM	1501	N	ALA	98	0.491	2.095	19.639	1.00	0.00
ATOM	1502	CA	ALA	98	0.484	0.757	20.211	1.00	0.00
ATOM	1504	C	ALA	98	-0.785	0.003	19.844	1.00	0.00
ATOM	1505	O	ALA	98	-0.771	-1.215	19.756	1.00	0.00
ATOM	1503	CB	ALA	98	0.629	0.828	21.724	1.00	0.00
ATOM	1506	H	ALA	98	0.491	2.864	20.240	1.00	0.00
ATOM	1507	HA	ALA	98	1.337	0.221	19.818	1.00	0.00
ATOM	1508	1HB	ALA	98	0.401	-0.137	22.152	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.055	1.566	22.117	1.00	0.00
ATOM	1510	3HB	ALA	98	1.642	1.104	21.976	1.00	0.00
ATOM	1511	N	PHE	99	-1.875	0.733	19.624	1.00	0.00
ATOM	1512	CA	PHE	99	-3.143	0.120	19.259	1.00	0.00
ATOM	1520	C	PHE	99	-2.975	-0.730	18.006	1.00	0.00
ATOM	1521	O	PHE	99	-3.354	-1.899	17.980	1.00	0.00
ATOM	1513	CB	PHE	99	-4.200	1.199	18.993	1.00	0.00
ATOM	1514	CG	PHE	99	-5.071	1.571	20.167	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.992	0.679	20.695	1.00	0.00
ATOM	1516	CD2	PHE	99	-4.988	2.839	20.719	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.806	1.047	21.755	1.00	0.00



ATOM	1518	CE2	PHE	99	-5.799	3.215	21.770	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.710	2.321	22.290	1.00	0.00
ATOM	1522	H	PHE	99	-1.823	1.708	19.705	1.00	0.00
ATOM	1523	HA	PHE	99	-3.459	-0.513	20.069	1.00	0.00
ATOM	1524	LHB	PHE	99	-4.845	0.857	18.200	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.700	2.098	18.667	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.274	3.544	20.316	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.067	-0.315	20.279	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.720	4.208	22.186	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.518	0.343	22.160	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.352	2.621	23.109	1.00	0.00
ATOM	1531	N	PHE	100	-2.403	-0.131	16.969	1.00	0.00
ATOM	1532	CA	PHE	100	-2.192	-0.838	15.712	1.00	0.00
ATOM	1540	C	PHE	100	-0.937	-1.704	15.765	1.00	0.00
ATOM	1541	O	PHE	100	-0.894	-2.787	15.178	1.00	0.00
ATOM	1533	CB	PHE	100	-2.093	0.152	14.554	1.00	0.00
ATOM	1534	CG	PHE	100	-3.400	0.377	13.852	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.379	1.171	14.424	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.650	-0.206	12.620	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.582	1.380	13.782	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.854	-0.001	11.974	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.821	0.793	12.557	1.00	0.00
ATOM	1542	H	PHE	100	-2.121	0.809	17.052	1.00	0.00
ATOM	1543	HA	PHE	100	-3.045	-1.479	15.550	1.00	0.00
ATOM	1544	LHB	PHE	100	-1.385	-0.223	13.829	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.747	1.103	14.928	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.894	-0.827	12.164	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.193	1.631	15.383	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.038	-0.460	11.015	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.338	2.001	14.240	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.764	0.954	12.056	1.00	0.00
ATOM	1551	N	VAL	101	0.079	-1.220	16.469	1.00	0.00
ATOM	1552	CA	VAL	101	1.336	-1.946	16.597	1.00	0.00
ATOM	1556	C	VAL	101	1.125	-3.269	17.333	1.00	0.00
ATOM	1557	O	VAL	101	1.781	-4.266	17.022	1.00	0.00
ATOM	1553	CB	VAL	101	2.413	-1.091	17.318	1.00	0.00
ATOM	1554	CG1	VAL	101	3.552	-1.950	17.855	1.00	0.00
ATOM	1555	CG2	VAL	101	2.960	-0.031	16.373	1.00	0.00
ATOM	1558	H	VAL	101	-0.018	-0.349	16.913	1.00	0.00
ATOM	1559	HA	VAL	101	1.693	-2.161	15.599	1.00	0.00
ATOM	1560	HB	VAL	101	1.944	-0.586	18.153	1.00	0.00
ATOM	1561	LHG1	VAL	101	4.475	-1.675	17.364	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.339	-2.991	17.664	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.651	-1.794	18.919	1.00	0.00
ATOM	1564	LHG2	VAL	101	3.128	-0.469	15.400	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.894	0.350	16.761	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.249	0.777	16.286	1.00	0.00
ATOM	1567	N	PHE	102	0.203	-3.275	18.297	1.00	0.00
ATOM	1568	CA	PHE	102	-0.097	-4.476	19.072	1.00	0.00
ATOM	1576	C	PHE	102	-0.445	-5.651	18.168	1.00	0.00
ATOM	1577	O	PHE	102	0.211	-6.694	18.210	1.00	0.00
ATOM	1569	CB	PHE	102	-1.260	-4.211	20.027	1.00	0.00
ATOM	1570	CG	PHE	102	-0.874	-4.245	21.473	1.00	0.00
ATOM	1571	CD1	PHE	102	0.024	-3.324	21.990	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.419	-5.192	22.317	1.00	0.00
ATOM	1573	CE1	PHE	102	0.369	-3.352	23.327	1.00	0.00
ATOM	1574	CE2	PHE	102	-1.076	-5.226	23.652	1.00	0.00
ATOM	1575	CZ	PHE	102	-0.183	-4.306	24.159	1.00	0.00
ATOM	1578	H	PHE	102	-0.300	-2.443	18.495	1.00	0.00
ATOM	1579	HA	PHE	102	0.780	-4.729	19.648	1.00	0.00
ATOM	1580	LHB	PHE	102	-2.023	-4.959	19.869	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.673	-3.235	19.819	1.00	0.00
ATOM	1582	HD1	PHE	102	0.455	-2.580	21.339	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.117	-5.915	21.922	1.00	0.00
ATOM	1584	HE1	PHE	102	1.070	-2.631	23.721	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.509	-5.973	24.300	1.00	0.00
ATOM	1586	HZ	PHE	102	0.079	-4.330	25.206	1.00	0.00
ATOM	1587	N	GLY	103	-1.481	-5.482	17.363	1.00	0.00
ATOM	1588	CA	GLY	103	-1.902	-6.545	16.475	1.00	0.00
ATOM	1589	C	GLY	103	-0.925	-6.803	15.347	1.00	0.00
ATOM	1590	O	GLY	103	-0.741	-7.948	14.948	1.00	0.00
ATOM	1591	H	GLY	103	-1.973	-4.632	17.380	1.00	0.00
ATOM	1592	LHA	GLY	103	-2.860	-6.291	16.056	1.00	0.00



ATOM	1593	2HA	GLY	103	-2.009	-7.452	17.050	1.00	0.00
ATOM	1594	N	ALA	104	-0.298	-5.748	14.832	1.00	0.00
ATOM	1595	CA	ALA	104	0.666	-5.889	13.742	1.00	0.00
ATOM	1597	C	ALA	104	1.845	-6.751	14.177	1.00	0.00
ATOM	1598	O	ALA	104	2.254	-7.666	13.461	1.00	0.00
ATOM	1596	CB	ALA	104	1.148	-4.522	13.276	1.00	0.00
ATOM	1599	H	ALA	104	-0.488	-4.855	15.193	1.00	0.00
ATOM	1600	HA	ALA	104	0.166	-6.376	12.911	1.00	0.00
ATOM	1601	1HB	ALA	104	0.731	-3.756	13.913	1.00	0.00
ATOM	1602	2HB	ALA	104	0.832	-4.355	12.255	1.00	0.00
ATOM	1603	3HB	ALA	104	2.226	-4.485	13.328	1.00	0.00
ATOM	1604	N	ALA	105	2.371	-6.471	15.364	1.00	0.00
ATOM	1605	CA	ALA	105	3.486	-7.239	15.900	1.00	0.00
ATOM	1607	C	ALA	105	3.026	-8.654	16.229	1.00	0.00
ATOM	1608	O	ALA	105	3.747	-9.626	15.992	1.00	0.00
ATOM	1606	CB	ALA	105	4.064	-6.559	17.134	1.00	0.00
ATOM	1609	H	ALA	105	1.988	-5.737	15.903	1.00	0.00
ATOM	1610	HA	ALA	105	4.256	-7.285	15.142	1.00	0.00
ATOM	1611	1HB	ALA	105	4.032	-7.243	17.970	1.00	0.00
ATOM	1612	2HB	ALA	105	3.484	-5.679	17.368	1.00	0.00
ATOM	1613	3HB	ALA	105	5.089	-6.275	16.943	1.00	0.00
ATOM	1614	N	LEU	106	1.811	-8.757	16.761	1.00	0.00
ATOM	1615	CA	LEU	106	1.226	-10.046	17.117	1.00	0.00
ATOM	1620	C	LEU	106	1.076	-10.923	15.879	1.00	0.00
ATOM	1621	O	LEU	106	1.414	-12.107	15.887	1.00	0.00
ATOM	1616	CB	LEU	106	-0.143	-9.826	17.773	1.00	0.00
ATOM	1617	CG	LEU	106	-0.438	-10.693	18.998	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.907	-9.824	20.156	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.479	-11.752	18.666	1.00	0.00
ATOM	1622	H	LEU	106	1.284	-7.938	16.912	1.00	0.00
ATOM	1623	HA	LEU	106	1.885	-10.533	17.815	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.910	-10.009	17.035	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.206	-8.790	18.074	1.00	0.00
ATOM	1626	HG	LEU	106	0.468	-11.196	19.304	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.918	-9.490	19.970	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.256	-8.966	20.247	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.880	-10.396	21.072	1.00	0.00
ATOM	1630	1HD2	LEU	106	-2.377	-11.568	19.240	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.090	-12.730	18.910	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.712	-11.709	17.612	1.00	0.00
ATOM	1633	N	CYS	107	0.572	-10.316	14.820	1.00	0.00
ATOM	1634	CA	CYS	107	0.358	-10.994	13.552	1.00	0.00
ATOM	1637	C	CYS	107	1.676	-11.450	12.939	1.00	0.00
ATOM	1638	O	CYS	107	1.768	-12.558	12.417	1.00	0.00
ATOM	1635	CB	CYS	107	-0.386	-10.060	12.598	1.00	0.00
ATOM	1636	SG	CYS	107	-2.112	-9.778	13.050	1.00	0.00
ATOM	1639	H	CYS	107	0.332	-9.366	14.894	1.00	0.00
ATOM	1640	HA	CYS	107	-0.251	-11.863	13.737	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.367	-10.472	11.604	1.00	0.00
ATOM	1642	2HB	CYS	107	0.108	-9.100	12.592	1.00	0.00
ATOM	1643	HG	CYS	107	-2.128	-8.952	14.088	1.00	0.00
ATOM	1644	N	ALA	108	2.693	-10.598	13.011	1.00	0.00
ATOM	1645	CA	ALA	108	4.007	-10.922	12.465	1.00	0.00
ATOM	1647	C	ALA	108	4.532	-12.235	13.042	1.00	0.00
ATOM	1648	O	ALA	108	4.885	-13.151	12.300	1.00	0.00
ATOM	1646	CB	ALA	108	4.989	-9.793	12.738	1.00	0.00
ATOM	1649	H	ALA	108	2.556	-9.727	13.443	1.00	0.00
ATOM	1650	HA	ALA	108	3.906	-11.028	11.394	1.00	0.00
ATOM	1651	1HB	ALA	108	4.707	-8.923	12.164	1.00	0.00
ATOM	1652	2HB	ALA	108	5.982	-10.105	12.454	1.00	0.00
ATOM	1653	3HB	ALA	108	4.976	-9.551	13.791	1.00	0.00
ATOM	1654	N	GLU	109	4.565	-12.326	14.367	1.00	0.00
ATOM	1655	CA	GLU	109	5.043	-13.534	15.034	1.00	0.00
ATOM	1661	C	GLU	109	4.100	-14.716	14.805	1.00	0.00
ATOM	1662	O	GLU	109	4.503	-15.868	14.959	1.00	0.00
ATOM	1656	CB	GLU	109	5.218	-13.297	16.534	1.00	0.00
ATOM	1657	CG	GLU	109	6.671	-13.310	16.983	1.00	0.00
ATOM	1658	CD	GLU	109	6.883	-14.158	18.220	1.00	0.00
ATOM	1659	OE1	GLU	109	5.960	-14.255	19.047	1.00	0.00
ATOM	1660	OE2	GLU	109	7.963	-14.772	18.351	1.00	0.00
ATOM	1663	H	GLU	109	4.262	-11.567	14.907	1.00	0.00
ATOM	1664	HA	GLU	109	6.005	-13.778	14.610	1.00	0.00
ATOM	1665	1HB	GLU	109	4.691	-14.069	17.073	1.00	0.00



ATOM	1666	2HB	GLU	109	4.793	-12.337	16.789	1.00	0.00
ATOM	1667	1HG	GLU	109	6.979	-12.297	17.201	1.00	0.00
ATOM	1668	2HG	GLU	109	7.279	-13.709	16.183	1.00	0.00
ATOM	1669	N	SER	110	2.855	-14.434	14.433	1.00	0.00
ATOM	1670	CA	SER	110	1.881	-15.489	14.186	1.00	0.00
ATOM	1673	C	SER	110	2.104	-16.120	12.811	1.00	0.00
ATOM	1674	O	SER	110	1.906	-17.319	12.634	1.00	0.00
ATOM	1671	CB	SER	110	0.458	-14.937	14.299	1.00	0.00
ATOM	1672	OG	SER	110	0.191	-14.487	15.617	1.00	0.00
ATOM	1675	H	SER	110	2.587	-13.497	14.321	1.00	0.00
ATOM	1676	HA	SER	110	2.022	-16.249	14.941	1.00	0.00
ATOM	1677	1HB	SER	110	-0.249	-15.714	14.045	1.00	0.00
ATOM	1678	2HB	SER	110	0.342	-14.107	13.619	1.00	0.00
ATOM	1679	HG	SER	110	0.713	-13.695	15.800	1.00	0.00
ATOM	1680	N	VAL	111	2.542	-15.311	11.846	1.00	0.00
ATOM	1681	CA	VAL	111	2.814	-15.807	10.496	1.00	0.00
ATOM	1685	C	VAL	111	4.112	-16.607	10.495	1.00	0.00
ATOM	1686	O	VAL	111	4.317	-17.497	9.672	1.00	0.00
ATOM	1682	CB	VAL	111	2.922	-14.658	9.464	1.00	0.00
ATOM	1683	CG1	VAL	111	3.057	-15.210	8.052	1.00	0.00
ATOM	1684	CG2	VAL	111	1.719	-13.737	9.554	1.00	0.00
ATOM	1687	H	VAL	111	2.700	-14.362	12.050	1.00	0.00
ATOM	1688	HA	VAL	111	1.999	-16.454	10.205	1.00	0.00
ATOM	1689	HB	VAL	111	3.809	-14.082	9.687	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.075	-15.334	7.619	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.559	-16.167	8.086	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.632	-14.523	7.450	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.539	-13.481	10.589	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.850	-14.238	9.153	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.910	-12.838	8.988	1.00	0.00
ATOM	1696	N	ASN	112	4.979	-16.284	11.443	1.00	0.00
ATOM	1697	CA	ASN	112	6.260	-16.965	11.585	1.00	0.00
ATOM	1702	C	ASN	112	6.089	-18.241	12.405	1.00	0.00
ATOM	1703	O	ASN	112	7.051	-18.959	12.675	1.00	0.00
ATOM	1698	CB	ASN	112	7.291	-16.041	12.243	1.00	0.00
ATOM	1699	CG	ASN	112	7.708	-14.891	11.341	1.00	0.00
ATOM	1700	OD1	ASN	112	8.067	-15.091	10.180	1.00	0.00
ATOM	1701	ND2	ASN	112	7.661	-13.676	11.873	1.00	0.00
ATOM	1704	H	ASN	112	4.747	-15.571	12.074	1.00	0.00
ATOM	1705	HA	ASN	112	6.605	-17.231	10.596	1.00	0.00
ATOM	1706	1HB	ASN	112	8.171	-16.614	12.493	1.00	0.00
ATOM	1707	2HB	ASN	112	6.868	-15.626	13.147	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.366	-13.591	12.802	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.911	-12.912	11.313	1.00	0.00
ATOM	1710	N	LYS	113	4.850	-18.509	12.801	1.00	0.00
ATOM	1711	CA	LYS	113	4.517	-19.688	13.586	1.00	0.00
ATOM	1717	C	LYS	113	3.279	-20.361	13.001	1.00	0.00
ATOM	1718	O	LYS	113	2.825	-19.997	11.917	1.00	0.00
ATOM	1712	CB	LYS	113	4.255	-19.295	15.042	1.00	0.00
ATOM	1713	CG	LYS	113	5.513	-19.167	15.885	1.00	0.00
ATOM	1714	CD	LYS	113	5.200	-18.609	17.263	1.00	0.00
ATOM	1715	CE	LYS	113	6.403	-17.902	17.868	1.00	0.00
ATOM	1716	NZ	LYS	113	6.000	-16.928	18.918	1.00	0.00
ATOM	1719	H	LYS	113	4.128	-17.895	12.548	1.00	0.00
ATOM	1720	HA	LYS	113	5.351	-20.374	13.543	1.00	0.00
ATOM	1721	1HB	LYS	113	3.620	-20.043	15.496	1.00	0.00
ATOM	1722	2HB	LYS	113	3.742	-18.345	15.057	1.00	0.00
ATOM	1723	1HG	LYS	113	6.203	-18.502	15.385	1.00	0.00
ATOM	1724	2HG	LYS	113	5.962	-20.141	15.995	1.00	0.00
ATOM	1725	1HD	LYS	113	4.908	-19.423	17.912	1.00	0.00
ATOM	1726	2HD	LYS	113	4.386	-17.904	17.181	1.00	0.00
ATOM	1727	1HE	LYS	113	6.928	-17.378	17.083	1.00	0.00
ATOM	1728	2HE	LYS	113	7.056	-18.641	18.307	1.00	0.00
ATOM	1729	1HZ	LYS	113	5.058	-16.541	18.708	1.00	0.00
ATOM	1730	2HZ	LYS	113	6.680	-16.133	18.953	1.00	0.00
ATOM	1731	3HZ	LYS	113	5.977	-17.387	19.847	1.00	0.00
ATOM	1732	N	GLU	114	2.725	-21.326	13.721	1.00	0.00
ATOM	1733	CA	GLU	114	1.531	-22.024	13.263	1.00	0.00
ATOM	1739	C	GLU	114	0.278	-21.315	13.782	1.00	0.00
ATOM	1740	O	GLU	114	-0.542	-21.908	14.490	1.00	0.00
ATOM	1734	CB	GLU	114	1.554	-23.483	13.731	1.00	0.00
ATOM	1735	CG	GLU	114	2.471	-24.371	12.902	1.00	0.00
ATOM	1736	CD	GLU	114	3.335	-25.283	13.751	1.00	0.00



ATOM	1737	OB1	GLU	114	3.707	-24.882	14.873	1.00	0.00
ATOM	1738	OE2	GLU	114	3.652	-26.401	13.292	1.00	0.00
ATOM	1741	H	GLU	114	3.122	-21.571	14.588	1.00	0.00
ATOM	1742	HA	GLU	114	1.525	-21.998	12.184	1.00	0.00
ATOM	1743	1HB	GLU	114	0.553	-23.884	13.677	1.00	0.00
ATOM	1744	2HB	GLU	114	1.891	-23.514	14.757	1.00	0.00
ATOM	1745	1HG	GLU	114	3.115	-23.741	12.306	1.00	0.00
ATOM	1746	2HG	GLU	114	1.864	-24.982	12.251	1.00	0.00
ATOM	1747	N	MET	115	0.145	-20.038	13.442	1.00	0.00
ATOM	1748	CA	MET	115	-0.992	-19.238	13.883	1.00	0.00
ATOM	1753	C	MET	115	-1.516	-18.369	12.742	1.00	0.00
ATOM	1754	O	MET	115	-1.766	-17.177	12.919	1.00	0.00
ATOM	1749	CB	MET	115	-0.593	-18.352	15.070	1.00	0.00
ATOM	1750	CG	MET	115	-0.420	-19.111	16.375	1.00	0.00
ATOM	1751	SD	MET	115	1.277	-19.073	16.987	1.00	0.00
ATOM	1752	CE	MET	115	1.537	-20.802	17.374	1.00	0.00
ATOM	1755	H	MET	115	0.841	-19.616	12.887	1.00	0.00
ATOM	1756	HA	MET	115	-1.774	-19.915	14.195	1.00	0.00
ATOM	1757	1HB	MET	115	-1.354	-17.601	15.215	1.00	0.00
ATOM	1758	2HB	MET	115	0.341	-17.863	14.838	1.00	0.00
ATOM	1759	1HG	MET	115	-0.707	-20.140	16.218	1.00	0.00
ATOM	1760	2HG	MET	115	-1.064	-18.670	17.120	1.00	0.00
ATOM	1761	1HE	MET	115	0.962	-21.412	16.696	1.00	0.00
ATOM	1762	2HE	MET	115	1.221	-20.996	18.388	1.00	0.00
ATOM	1763	3HE	MET	115	2.587	-21.039	17.271	1.00	0.00
ATOM	1764	N	GLU	116	-1.676	-18.974	11.573	1.00	0.00
ATOM	1765	CA	GLU	116	-2.161	-18.262	10.390	1.00	0.00
ATOM	1771	C	GLU	116	-3.586	-17.710	10.575	1.00	0.00
ATOM	1772	O	GLU	116	-3.810	-16.515	10.376	1.00	0.00
ATOM	1766	CB	GLU	116	-2.097	-19.159	9.145	1.00	0.00
ATOM	1767	CG	GLU	116	-0.943	-20.150	9.155	1.00	0.00
ATOM	1768	CD	GLU	116	-1.345	-21.503	9.701	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.596	-21.602	10.920	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.419	-22.469	8.914	1.00	0.00
ATOM	1773	H	GLU	116	-1.459	-19.936	11.498	1.00	0.00
ATOM	1774	HA	GLU	116	-1.499	-17.423	10.236	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.998	-18.532	8.272	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.020	-19.716	9.071	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.148	-19.750	9.768	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.586	-20.278	8.143	1.00	0.00
ATOM	1779	N	PRO	117	-4.580	-18.550	10.949	1.00	0.00
ATOM	1780	CA	PRO	117	-5.965	-18.089	11.132	1.00	0.00
ATOM	1784	C	PRO	117	-6.107	-17.072	12.260	1.00	0.00
ATOM	1785	O	PRO	117	-7.078	-16.321	12.311	1.00	0.00
ATOM	1781	CB	PRO	117	-6.741	-19.369	11.472	1.00	0.00
ATOM	1782	CG	PRO	117	-5.864	-20.488	11.028	1.00	0.00
ATOM	1783	CD	PRO	117	-4.458	-19.998	11.207	1.00	0.00
ATOM	1786	HA	PRO	117	-6.357	-17.663	10.221	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.681	-19.372	10.941	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.923	-19.409	12.536	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.054	-20.714	9.990	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.039	-21.359	11.643	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.800	-20.463	10.489	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.116	-20.186	12.215	1.00	0.00
ATOM	1793	N	LEU	118	-5.132	-17.047	13.163	1.00	0.00
ATOM	1794	CA	LEU	118	-5.159	-16.119	14.286	1.00	0.00
ATOM	1799	C	LEU	118	-4.889	-14.693	13.820	1.00	0.00
ATOM	1800	O	LEU	118	-5.378	-13.738	14.419	1.00	0.00
ATOM	1795	CB	LEU	118	-4.139	-16.534	15.348	1.00	0.00
ATOM	1796	CG	LEU	118	-4.719	-17.310	16.528	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.778	-18.797	16.210	1.00	0.00
ATOM	1798	CD2	LEU	118	-3.894	-17.059	17.781	1.00	0.00
ATOM	1801	H	LEU	118	-4.379	-17.666	13.067	1.00	0.00
ATOM	1802	HA	LEU	118	-6.149	-16.157	14.717	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.668	-15.642	15.734	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.385	-17.145	14.877	1.00	0.00
ATOM	1805	HG	LEU	118	-5.726	-16.969	16.716	1.00	0.00
ATOM	1806	1HD1	LEU	118	-3.790	-19.224	16.300	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.139	-18.936	15.202	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.446	-19.287	16.902	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.467	-16.461	18.474	1.00	0.00
ATOM	1810	2HD2	LEU	118	-2.989	-16.534	17.515	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.641	-18.003	18.242	1.00	0.00



ATOM	1812	N	VAL	119	-4.119	-14.564	12.745	1.00	0.00
ATOM	1813	CA	VAL	119	-3.780	-13.258	12.182	1.00	0.00
ATOM	1817	C	VAL	119	-5.037	-12.486	11.788	1.00	0.00
ATOM	1818	O	VAL	119	-5.216	-11.330	12.179	1.00	0.00
ATOM	1814	CB	VAL	119	-2.861	-13.406	10.949	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.613	-12.062	10.281	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.545	-14.060	11.338	1.00	0.00
ATOM	1819	H	VAL	119	-3.769	-15.372	12.312	1.00	0.00
ATOM	1820	HA	VAL	119	-3.247	-12.695	12.938	1.00	0.00
ATOM	1821	HB	VAL	119	-3.357	-14.048	10.234	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.574	-11.987	9.999	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.857	-11.266	10.971	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.232	-11.976	9.401	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.703	-14.710	12.187	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.826	-13.297	11.596	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.173	-14.640	10.506	1.00	0.00
ATOM	1828	N	GLY	120	-5.909	-13.130	11.021	1.00	0.00
ATOM	1829	CA	GLY	120	-7.138	-12.485	10.595	1.00	0.00
ATOM	1830	C	GLY	120	-8.034	-12.136	11.764	1.00	0.00
ATOM	1831	O	GLY	120	-8.755	-11.140	11.725	1.00	0.00
ATOM	1832	H	GLY	120	-5.717	-14.051	10.746	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.669	-13.142	9.930	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.890	-11.577	10.065	1.00	0.00
ATOM	1835	N	GLN	121	-7.977	-12.946	12.815	1.00	0.00
ATOM	1836	CA	GLN	121	-8.775	-12.702	14.003	1.00	0.00
ATOM	1842	C	GLN	121	-8.276	-11.447	14.700	1.00	0.00
ATOM	1843	O	GLN	121	-9.049	-10.557	15.000	1.00	0.00
ATOM	1837	CB	GLN	121	-8.732	-13.897	14.961	1.00	0.00
ATOM	1838	CG	GLN	121	-9.240	-15.213	14.375	1.00	0.00
ATOM	1839	CD	GLN	121	-10.240	-15.041	13.240	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.011	-15.502	12.122	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.356	-14.386	13.514	1.00	0.00
ATOM	1844	H	GLN	121	-7.376	-13.714	12.794	1.00	0.00
ATOM	1845	HA	GLN	121	-9.796	-12.534	13.692	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.334	-13.663	15.827	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.712	-14.045	15.281	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.712	-15.781	15.164	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.395	-15.769	13.997	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.487	-14.042	14.424	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.012	-14.266	12.796	1.00	0.00
ATOM	1852	N	VAL	122	-6.978	-11.351	14.930	1.00	0.00
ATOM	1853	CA	VAL	122	-6.424	-10.161	15.568	1.00	0.00
ATOM	1857	C	VAL	122	-6.757	-8.931	14.730	1.00	0.00
ATOM	1858	O	VAL	122	-7.008	-7.849	15.262	1.00	0.00
ATOM	1854	CB	VAL	122	-4.892	-10.270	15.754	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.352	-9.070	16.515	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.523	-11.561	16.470	1.00	0.00
ATOM	1859	H	VAL	122	-6.378	-12.080	14.650	1.00	0.00
ATOM	1860	HA	VAL	122	-6.893	-10.051	16.543	1.00	0.00
ATOM	1861	HB	VAL	122	-4.432	-10.286	14.775	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.217	-9.334	17.553	1.00	0.00
ATOM	1863	2HG1	VAL	122	-5.052	-8.252	16.439	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.404	-8.774	16.092	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.136	-11.672	17.352	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.482	-11.528	16.757	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.688	-12.399	15.809	1.00	0.00
ATOM	1868	N	GLN	123	-6.794	-9.119	13.415	1.00	0.00
ATOM	1869	CA	GLN	123	-7.129	-8.046	12.496	1.00	0.00
ATOM	1875	C	GLN	123	-8.559	-7.568	12.735	1.00	0.00
ATOM	1876	O	GLN	123	-8.813	-6.364	12.821	1.00	0.00
ATOM	1870	CB	GLN	123	-6.964	-8.514	11.047	1.00	0.00
ATOM	1871	CG	GLN	123	-6.603	-7.394	10.086	1.00	0.00
ATOM	1872	CD	GLN	123	-5.872	-7.895	8.857	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.382	-8.724	8.107	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.668	-7.388	8.642	1.00	0.00
ATOM	1877	H	GLN	123	-6.606	-10.014	13.058	1.00	0.00
ATOM	1878	HA	GLN	123	-6.452	-7.225	12.683	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.893	-8.957	10.717	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.186	-9.264	11.006	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.970	-6.686	10.599	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.510	-6.903	9.769	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.323	-6.730	9.278	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.173	-7.695	7.856	1.00	0.00



ATOM	1885	N	GLU	124	-9.488	-8.514	12.858	1.00	0.00
ATOM	1886	CA	GLU	124	-10.888	-8.177	13.097	1.00	0.00
ATOM	1892	C	GLU	124	-11.082	-7.654	14.517	1.00	0.00
ATOM	1893	O	GLU	124	-11.822	-6.693	14.718	1.00	0.00
ATOM	1887	CB	GLU	124	-11.806	-9.378	12.836	1.00	0.00
ATOM	1888	CG	GLU	124	-11.535	-10.566	13.739	1.00	0.00
ATOM	1889	CD	GLU	124	-12.702	-11.526	13.845	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.577	-11.510	12.955	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.748	-12.304	14.826	1.00	0.00
ATOM	1894	H	GLU	124	-9.226	-9.459	12.790	1.00	0.00
ATOM	1895	HA	GLU	124	-11.149	-7.387	12.408	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.681	-9.695	11.811	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.831	-9.070	12.984	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.299	-10.202	14.726	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.677	-11.095	13.356	1.00	0.00
ATOM	1900	N	TRP	125	-10.408	-8.266	15.500	1.00	0.00
ATOM	1901	CA	TRP	125	-10.526	-7.815	16.887	1.00	0.00
ATOM	1912	C	TRP	125	-10.115	-6.356	16.978	1.00	0.00
ATOM	1913	O	TRP	125	-10.718	-5.560	17.700	1.00	0.00
ATOM	1902	CB	TRP	125	-9.616	-8.613	17.847	1.00	0.00
ATOM	1903	CG	TRP	125	-9.732	-10.110	17.806	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.775	-10.871	17.356	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.730	-11.029	18.251	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.466	-12.208	17.479	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.213	-12.328	18.019	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.460	-10.873	18.813	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.468	-13.465	18.327	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.725	-11.999	19.122	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.225	-13.281	18.874	1.00	0.00
ATOM	1914	H	TRP	125	-9.813	-9.028	15.284	1.00	0.00
ATOM	1915	HA	TRP	125	-11.557	-7.910	17.189	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.815	-8.298	18.856	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.590	-8.372	17.617	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.694	-10.472	16.960	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.049	-12.953	17.221	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.060	-9.891	19.028	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.840	-14.462	18.141	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.740	-11.894	19.554	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.615	-14.134	19.141	1.00	0.00
ATOM	1924	N	MET	126	-9.070	-6.025	16.239	1.00	0.00
ATOM	1925	CA	MET	126	-8.538	-4.672	16.233	1.00	0.00
ATOM	1930	C	MET	126	-9.436	-3.711	15.468	1.00	0.00
ATOM	1931	O	MET	126	-9.810	-2.660	15.986	1.00	0.00
ATOM	1926	CB	MET	126	-7.135	-4.661	15.624	1.00	0.00
ATOM	1927	CG	MET	126	-6.121	-3.871	16.434	1.00	0.00
ATOM	1928	SD	MET	126	-4.420	-4.261	15.978	1.00	0.00
ATOM	1929	CE	MET	126	-4.355	-3.607	14.313	1.00	0.00
ATOM	1932	H	MET	126	-8.634	-6.724	15.688	1.00	0.00
ATOM	1933	HA	MET	126	-8.478	-4.339	17.256	1.00	0.00
ATOM	1934	1HB	MET	126	-7.188	-4.230	14.635	1.00	0.00
ATOM	1935	2HB	MET	126	-6.784	-5.678	15.545	1.00	0.00
ATOM	1936	1HG	MET	126	-6.261	-4.101	17.481	1.00	0.00
ATOM	1937	2HG	MET	126	-6.291	-2.817	16.272	1.00	0.00
ATOM	1938	1HE	MET	126	-4.584	-4.393	13.608	1.00	0.00
ATOM	1939	2HE	MET	126	-3.366	-3.222	14.116	1.00	0.00
ATOM	1940	3HE	MET	126	-5.078	-2.811	14.212	1.00	0.00
ATOM	1941	N	VAL	127	-9.765	-4.056	14.232	1.00	0.00
ATOM	1942	CA	VAL	127	-10.595	-3.187	13.410	1.00	0.00
ATOM	1946	C	VAL	127	-11.998	-3.006	13.993	1.00	0.00
ATOM	1947	O	VAL	127	-12.588	-1.939	13.840	1.00	0.00
ATOM	1943	CB	VAL	127	-10.671	-3.663	11.936	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.678	-4.789	11.755	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.007	-2.496	11.020	1.00	0.00
ATOM	1948	H	VAL	127	-9.428	-4.902	13.859	1.00	0.00
ATOM	1949	HA	VAL	127	-10.117	-2.216	13.409	1.00	0.00
ATOM	1950	HB	VAL	127	-9.696	-4.034	11.653	1.00	0.00
ATOM	1951	1HG1	VAL	127	-12.405	-4.504	11.007	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.182	-4.976	12.692	1.00	0.00
ATOM	1953	3HG1	VAL	127	-11.166	-5.684	11.435	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.634	-2.842	10.212	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.095	-2.081	10.616	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.530	-1.735	11.582	1.00	0.00
ATOM	1957	N	GLU	128	-12.529	-4.024	14.676	1.00	0.00



ATOM	1958	CA	GLU	128	-13.858	-3.905	15.264	1.00	0.00
ATOM	1964	C	GLU	128	-13.827	-2.929	16.432	1.00	0.00
ATOM	1965	O	GLU	128	-14.621	-1.993	16.495	1.00	0.00
ATOM	1959	CB	GLU	128	-14.382	-5.268	15.720	1.00	0.00
ATOM	1960	CG	GLU	128	-15.245	-5.965	14.679	1.00	0.00
ATOM	1961	CD	GLU	128	-16.433	-6.684	15.287	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.519	-6.754	16.531	1.00	0.00
ATOM	1963	OE2	GLU	128	-17.284	-7.187	14.524	1.00	0.00
ATOM	1966	H	GLU	128	-12.018	-4.865	14.793	1.00	0.00
ATOM	1967	HA	GLU	128	-14.515	-3.510	14.506	1.00	0.00
ATOM	1968	1HB	GLU	128	-14.972	-5.131	16.613	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.541	-5.907	15.948	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.637	-6.686	14.151	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.611	-5.226	13.981	1.00	0.00
ATOM	1972	N	TYR	129	-12.884	-3.135	17.340	1.00	0.00
ATOM	1973	CA	TYR	129	-12.735	-2.262	18.495	1.00	0.00
ATOM	1982	C	TYR	129	-12.482	-0.822	18.062	1.00	0.00
ATOM	1983	O	TYR	129	-12.888	0.133	18.733	1.00	0.00
ATOM	1974	CB	TYR	129	-11.574	-2.732	19.367	1.00	0.00
ATOM	1975	CG	TYR	129	-11.742	-2.347	20.816	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.512	-3.115	21.679	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.150	-1.194	21.313	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.683	-2.746	23.000	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.322	-0.816	22.626	1.00	0.00
ATOM	1980	CZ	TYR	129	-12.087	-1.594	23.466	1.00	0.00
ATOM	1981	OH	TYR	129	-12.270	-1.206	24.771	1.00	0.00
ATOM	1984	H	TYR	129	-12.264	-3.890	17.226	1.00	0.00
ATOM	1985	HA	TYR	129	-13.649	-2.303	19.070	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.659	-2.284	19.007	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.490	-3.806	19.303	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.550	-0.585	20.653	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.976	-4.017	21.308	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.854	0.086	22.993	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.282	-3.357	23.659	1.00	0.00
ATOM	1992	HH	TYR	129	-12.576	-1.959	25.303	1.00	0.00
ATOM	1993	N	LEU	130	-11.791	-0.678	16.945	1.00	0.00
ATOM	1994	CA	LEU	130	-11.449	0.634	16.424	1.00	0.00
ATOM	1999	C	LEU	130	-12.623	1.323	15.733	1.00	0.00
ATOM	2000	O	LEU	130	-12.924	2.471	16.035	1.00	0.00
ATOM	1995	CB	LEU	130	-10.275	0.539	15.456	1.00	0.00
ATOM	1996	CG	LEU	130	-8.948	1.055	16.004	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.890	-0.037	15.965	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.494	2.280	15.222	1.00	0.00
ATOM	2001	H	LEU	130	-11.486	-1.482	16.466	1.00	0.00
ATOM	2002	HA	LEU	130	-11.145	1.243	17.265	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.522	1.113	14.578	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.148	-0.496	15.170	1.00	0.00
ATOM	2005	HG	LEU	130	-9.084	1.348	17.035	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.357	-0.997	16.132	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.158	0.146	16.739	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.404	-0.035	15.001	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.665	2.014	14.583	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.183	3.052	15.911	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.312	2.645	14.619	1.00	0.00
ATOM	2012	N	GLU	131	-13.264	0.648	14.790	1.00	0.00
ATOM	2013	CA	GLU	131	-14.374	1.257	14.053	1.00	0.00
ATOM	2019	C	GLU	131	-15.552	1.615	14.962	1.00	0.00
ATOM	2020	O	GLU	131	-16.237	2.613	14.730	1.00	0.00
ATOM	2014	CB	GLU	131	-14.835	0.350	12.898	1.00	0.00
ATOM	2015	CG	GLU	131	-15.594	-0.896	13.335	1.00	0.00
ATOM	2016	CD	GLU	131	-17.092	-0.790	13.104	1.00	0.00
ATOM	2017	OE1	GLU	131	-17.520	-0.677	11.933	1.00	0.00
ATOM	2018	OE2	GLU	131	-17.850	-0.824	14.094	1.00	0.00
ATOM	2021	H	GLU	131	-12.976	-0.266	14.561	1.00	0.00
ATOM	2022	HA	GLU	131	-13.997	2.175	13.629	1.00	0.00
ATOM	2023	1HB	GLU	131	-13.965	0.035	12.340	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.477	0.922	12.244	1.00	0.00
ATOM	2025	1HG	GLU	131	-15.416	-1.054	14.387	1.00	0.00
ATOM	2026	2HG	GLU	131	-15.221	-1.743	12.778	1.00	0.00
ATOM	2027	N	THR	132	-15.801	0.798	15.974	1.00	0.00
ATOM	2028	CA	THR	132	-16.920	1.036	16.873	1.00	0.00
ATOM	2032	C	THR	132	-16.625	2.076	17.957	1.00	0.00
ATOM	2033	O	THR	132	-17.507	2.857	18.318	1.00	0.00



ATOM	2029	CB	THR	132	-17.374	-0.272	17.550	1.00	0.00
ATOM	2030	OG1	THR	132	-17.313	-1.359	16.619	1.00	0.00
ATOM	2031	CG2	THR	132	-18.794	-0.146	18.091	1.00	0.00
ATOM	2034	H	THR	132	-15.240	0.003	16.102	1.00	0.00
ATOM	2035	HA	THR	132	-17.743	1.396	16.275	1.00	0.00
ATOM	2036	HB	THR	132	-16.707	-0.478	18.378	1.00	0.00
ATOM	2037	HG1	THR	132	-17.499	-1.033	15.719	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.219	-1.130	18.228	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.398	0.411	17.389	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.773	0.372	19.038	1.00	0.00
ATOM	2041	N	ARG	133	-15.417	2.075	18.521	1.00	0.00
ATOM	2042	CA	ARG	133	-15.119	3.019	19.599	1.00	0.00
ATOM	2050	C	ARG	133	-13.941	3.949	19.319	1.00	0.00
ATOM	2051	O	ARG	133	-14.002	5.130	19.658	1.00	0.00
ATOM	2043	CB	ARG	133	-14.879	2.277	20.924	1.00	0.00
ATOM	2044	CG	ARG	133	-15.569	0.921	21.035	1.00	0.00
ATOM	2045	CD	ARG	133	-15.142	0.186	22.302	1.00	0.00
ATOM	2046	NE	ARG	133	-16.272	-0.430	23.005	1.00	0.00
ATOM	2047	CZ	ARG	133	-16.182	-1.005	24.212	1.00	0.00
ATOM	2048	NH1	ARG	133	-15.019	-1.050	24.853	1.00	0.00
ATOM	2049	NH2	ARG	133	-17.258	-1.535	24.780	1.00	0.00
ATOM	2052	H	ARG	133	-14.743	1.420	18.237	1.00	0.00
ATOM	2053	HA	ARG	133	-15.994	3.639	19.719	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.230	2.900	21.733	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.817	2.120	21.042	1.00	0.00
ATOM	2056	1HG	ARG	133	-15.310	0.321	20.175	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.638	1.075	21.064	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.663	0.892	22.964	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.436	-0.586	22.033	1.00	0.00
ATOM	2060	HE	ARG	133	-17.151	-0.415	22.547	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.195	-0.653	24.440	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.949	-1.498	25.755	1.00	0.00
ATOM	2063	1HH2	ARG	133	-18.148	-1.510	24.308	1.00	0.00
ATOM	2064	2HH2	ARG	133	-17.190	-1.966	25.690	1.00	0.00
ATOM	2065	N	LEU	134	-12.864	3.438	18.737	1.00	0.00
ATOM	2066	CA	LEU	134	-11.693	4.281	18.476	1.00	0.00
ATOM	2071	C	LEU	134	-12.018	5.403	17.496	1.00	0.00
ATOM	2072	O	LEU	134	-11.674	6.559	17.738	1.00	0.00
ATOM	2067	CB	LEU	134	-10.522	3.448	17.960	1.00	0.00
ATOM	2068	CG	LEU	134	-9.347	3.298	18.927	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.601	4.617	19.077	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.827	2.792	20.279	1.00	0.00
ATOM	2073	H	LEU	134	-12.842	2.484	18.493	1.00	0.00
ATOM	2074	HA	LEU	134	-11.406	4.729	19.416	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.155	3.905	17.054	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.890	2.463	17.724	1.00	0.00
ATOM	2077	HG	LEU	134	-8.660	2.569	18.525	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.726	4.607	18.443	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.297	4.746	20.106	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.246	5.434	18.788	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.411	1.812	20.464	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.907	2.729	20.279	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.506	3.471	21.054	1.00	0.00
ATOM	2084	N	ALA	135	-12.685	5.056	16.399	1.00	0.00
ATOM	2085	CA	ALA	135	-13.067	6.024	15.383	1.00	0.00
ATOM	2087	C	ALA	135	-13.860	7.173	15.986	1.00	0.00
ATOM	2088	O	ALA	135	-13.727	8.315	15.546	1.00	0.00
ATOM	2086	CB	ALA	135	-13.869	5.343	14.285	1.00	0.00
ATOM	2089	H	ALA	135	-12.925	4.114	16.265	1.00	0.00
ATOM	2090	HA	ALA	135	-12.164	6.418	14.941	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.846	5.950	13.392	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.890	5.217	14.610	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.437	4.376	14.073	1.00	0.00
ATOM	2094	N	ASP	136	-14.670	6.880	17.003	1.00	0.00
ATOM	2095	CA	ASP	136	-15.458	7.919	17.655	1.00	0.00
ATOM	2100	C	ASP	136	-14.544	8.910	18.354	1.00	0.00
ATOM	2101	O	ASP	136	-14.661	10.118	18.142	1.00	0.00
ATOM	2096	CB	ASP	136	-16.454	7.317	18.645	1.00	0.00
ATOM	2097	CG	ASP	136	-17.717	8.146	18.755	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.502	8.175	17.782	1.00	0.00
ATOM	2099	OD2	ASP	136	-17.930	8.771	19.813	1.00	0.00
ATOM	2102	H	ASP	136	-14.728	5.952	17.326	1.00	0.00
ATOM	2103	HA	ASP	136	-16.000	8.450	16.886	1.00	0.00



ATOM	2104	1HB	ASP	136	-15.994	7.263	19.621	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.722	6.323	18.321	1.00	0.00
ATOM	2106	N	TRP	137	-13.606	8.403	19.156	1.00	0.00
ATOM	2107	CA	TRP	137	-12.655	9.265	19.837	1.00	0.00
ATOM	2118	C	TRP	137	-11.870	10.064	18.803	1.00	0.00
ATOM	2119	O	TRP	137	-11.724	11.281	18.912	1.00	0.00
ATOM	2108	CB	TRP	137	-11.691	8.429	20.700	1.00	0.00
ATOM	2109	CG	TRP	137	-10.589	9.239	21.327	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.554	9.717	22.602	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.364	9.662	20.711	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.399	10.431	22.807	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.653	10.409	21.660	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.805	9.486	19.442	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.416	10.975	21.380	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.579	10.051	19.167	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.895	10.789	20.132	1.00	0.00
ATOM	2120	H	TRP	137	-13.534	7.426	19.272	1.00	0.00
ATOM	2121	HA	TRP	137	-13.206	9.947	20.466	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.237	7.665	20.084	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.249	7.957	21.494	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.328	9.552	23.331	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.150	10.886	23.638	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.321	8.919	18.680	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.871	11.542	22.113	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.135	9.925	18.190	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.935	11.214	19.875	1.00	0.00
ATOM	2130	N	ILE	138	-11.361	9.351	17.807	1.00	0.00
ATOM	2131	CA	ILE	138	-10.565	9.947	16.745	1.00	0.00
ATOM	2136	C	ILE	138	-11.316	11.058	16.021	1.00	0.00
ATOM	2137	O	ILE	138	-10.775	12.143	15.819	1.00	0.00
ATOM	2132	CB	ILE	138	-10.103	8.872	15.730	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.993	8.015	16.341	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.620	9.513	14.436	1.00	0.00
ATOM	2135	CD1	ILE	138	-8.975	6.593	15.830	1.00	0.00
ATOM	2138	H	ILE	138	-11.515	8.379	17.795	1.00	0.00
ATOM	2139	HA	ILE	138	-9.684	10.371	17.202	1.00	0.00
ATOM	2140	HB	ILE	138	-10.947	8.240	15.497	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.121	7.982	17.413	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.037	8.460	16.111	1.00	0.00
ATOM	2143	1HG2	ILE	138	-8.980	10.352	14.669	1.00	0.00
ATOM	2144	2HG2	ILE	138	-10.469	9.856	13.865	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.066	8.787	13.859	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.863	6.599	14.756	1.00	0.00
ATOM	2147	2HD1	ILE	138	-9.902	6.104	16.093	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.148	6.061	16.275	1.00	0.00
ATOM	2149	N	HIS	139	-12.555	10.790	15.629	1.00	0.00
ATOM	2150	CA	HIS	139	-13.355	11.777	14.911	1.00	0.00
ATOM	2157	C	HIS	139	-13.672	12.990	15.784	1.00	0.00
ATOM	2158	O	HIS	139	-13.812	14.098	15.274	1.00	0.00
ATOM	2151	CB	HIS	139	-14.649	11.146	14.380	1.00	0.00
ATOM	2152	CG	HIS	139	-14.489	10.493	13.036	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.586	11.181	11.844	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.222	9.206	12.699	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.380	10.347	10.837	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.158	9.145	11.329	1.00	0.00
ATOM	2159	H	HIS	139	-12.941	9.901	15.823	1.00	0.00
ATOM	2160	HA	HIS	139	-12.769	12.111	14.068	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.404	11.914	14.291	1.00	0.00
ATOM	2162	2HB	HIS	139	-14.988	10.394	15.077	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.799	12.136	11.747	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.086	8.380	13.384	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.385	10.608	9.790	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.081	8.317	10.791	1.00	0.00
ATOM	2167	N	SER	140	-13.783	12.784	17.089	1.00	0.00
ATOM	2168	CA	SER	140	-14.091	13.883	18.002	1.00	0.00
ATOM	2171	C	SER	140	-12.837	14.674	18.397	1.00	0.00
ATOM	2172	O	SER	140	-12.916	15.868	18.679	1.00	0.00
ATOM	2169	CB	SER	140	-14.793	13.340	19.248	1.00	0.00
ATOM	2170	OG	SER	140	-15.827	12.432	18.894	1.00	0.00
ATOM	2173	H	SER	140	-13.669	11.875	17.448	1.00	0.00
ATOM	2174	HA	SER	140	-14.763	14.550	17.489	1.00	0.00
ATOM	2175	1HB	SER	140	-15.226	14.160	19.802	1.00	0.00
ATOM	2176	2HB	SER	140	-14.075	12.825	19.869	1.00	0.00



ATOM	2177	HG	SER	140	-15.439	11.571	18.674	1.00	0.00
ATOM	2178	N	SER	141	-11.691	14.008	18.438	1.00	0.00
ATOM	2179	CA	SER	141	-10.446	14.662	18.827	1.00	0.00
ATOM	2182	C	SER	141	-9.947	15.630	17.760	1.00	0.00
ATOM	2183	O	SER	141	-9.754	16.816	18.025	1.00	0.00
ATOM	2180	CB	SER	141	-9.372	13.619	19.140	1.00	0.00
ATOM	2181	OG	SER	141	-8.839	13.808	20.441	1.00	0.00
ATOM	2184	H	SER	141	-11.681	13.050	18.223	1.00	0.00
ATOM	2185	HA	SER	141	-10.645	15.223	19.717	1.00	0.00
ATOM	2186	1HB	SER	141	-8.571	13.702	18.420	1.00	0.00
ATOM	2187	2HB	SER	141	-9.805	12.631	19.083	1.00	0.00
ATOM	2188	HG	SER	141	-8.011	14.297	20.374	1.00	0.00
ATOM	2189	N	GLY	142	-9.734	15.118	16.566	1.00	0.00
ATOM	2190	CA	GLY	142	-9.247	15.945	15.478	1.00	0.00
ATOM	2191	C	GLY	142	-9.290	15.207	14.167	1.00	0.00
ATOM	2192	O	GLY	142	-9.117	15.793	13.101	1.00	0.00
ATOM	2193	H	GLY	142	-9.907	14.169	16.418	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.225	16.231	15.684	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.854	16.830	15.405	1.00	0.00
ATOM	2196	N	GLY	143	-9.533	13.912	14.254	1.00	0.00
ATOM	2197	CA	GLY	143	-9.607	13.093	13.068	1.00	0.00
ATOM	2198	C	GLY	143	-8.287	12.471	12.712	1.00	0.00
ATOM	2199	O	GLY	143	-7.254	12.825	13.277	1.00	0.00
ATOM	2200	H	GLY	143	-9.670	13.505	15.140	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.935	13.699	12.244	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.321	12.310	13.227	1.00	0.00
ATOM	2203	N	TRP	144	-8.318	11.553	11.761	1.00	0.00
ATOM	2204	CA	TRP	144	-7.113	10.884	11.310	1.00	0.00
ATOM	2215	C	TRP	144	-6.174	11.907	10.703	1.00	0.00
ATOM	2216	O	TRP	144	-4.957	11.774	10.791	1.00	0.00
ATOM	2205	CB	TRP	144	-7.460	9.789	10.301	1.00	0.00
ATOM	2206	CG	TRP	144	-8.123	8.596	10.929	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.467	8.348	11.020	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.469	7.492	11.560	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.684	7.157	11.677	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.472	6.611	12.012	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.131	7.159	11.785	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.176	5.424	12.677	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.839	5.981	12.444	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.859	5.125	12.883	1.00	0.00
ATOM	2217	H	TRP	144	-9.176	11.330	11.338	1.00	0.00
ATOM	2218	HA	TRP	144	-6.632	10.443	12.170	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.555	9.454	9.819	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.132	10.194	9.558	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.234	9.004	10.637	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.566	6.758	11.869	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.333	7.805	11.453	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.951	4.752	13.022	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.807	5.704	12.624	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.584	4.214	13.394	1.00	0.00
ATOM	2227	N	ALA	145	-6.767	12.947	10.120	1.00	0.00
ATOM	2228	CA	ALA	145	-6.014	14.033	9.513	1.00	0.00
ATOM	2230	C	ALA	145	-5.175	14.771	10.552	1.00	0.00
ATOM	2231	O	ALA	145	-4.088	15.259	10.243	1.00	0.00
ATOM	2229	CB	ALA	145	-6.951	14.999	8.803	1.00	0.00
ATOM	2232	H	ALA	145	-7.745	12.990	10.118	1.00	0.00
ATOM	2233	HA	ALA	145	-5.353	13.603	8.772	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.792	15.221	9.444	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.305	14.550	7.887	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.421	15.913	8.575	1.00	0.00
ATOM	2237	N	GLU	146	-5.665	14.835	11.795	1.00	0.00
ATOM	2238	CA	GLU	146	-4.916	15.502	12.858	1.00	0.00
ATOM	2244	C	GLU	146	-3.631	14.720	13.118	1.00	0.00
ATOM	2245	O	GLU	146	-2.552	15.291	13.283	1.00	0.00
ATOM	2239	CB	GLU	146	-5.763	15.630	14.142	1.00	0.00
ATOM	2240	CG	GLU	146	-4.973	15.475	15.439	1.00	0.00
ATOM	2241	CD	GLU	146	-5.509	16.331	16.575	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.937	17.475	16.315	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.499	15.862	17.735	1.00	0.00
ATOM	2246	H	GLU	146	-6.534	14.410	12.002	1.00	0.00
ATOM	2247	HA	GLU	146	-4.653	16.490	12.506	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.543	14.882	14.128	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.222	16.603	14.152	1.00	0.00



ATOM	2250	1HG	GLU	146	-3.945	15.755	15.252	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.011	14.440	15.744	1.00	0.00
ATOM	2252	N	PHE	147	-3.762	13.401	13.111	1.00	0.00
ATOM	2253	CA	PHE	147	-2.634	12.499	13.313	1.00	0.00
ATOM	2261	C	PHE	147	-1.643	12.613	12.155	1.00	0.00
ATOM	2262	O	PHE	147	-0.427	12.586	12.369	1.00	0.00
ATOM	2254	CB	PHE	147	-3.153	11.063	13.452	1.00	0.00
ATOM	2255	CG	PHE	147	-2.100	10.049	13.799	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.044	10.375	14.634	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.170	8.766	13.283	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.079	9.439	14.946	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.206	7.827	13.589	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.159	8.164	14.421	1.00	0.00
ATOM	2263	H	PHE	147	-4.651	13.021	12.943	1.00	0.00
ATOM	2264	HA	PHE	147	-2.128	12.788	14.226	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.606	10.763	12.518	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.902	11.034	14.229	1.00	0.00
ATOM	2267	HD1	PHE	147	-2.989	8.501	12.630	1.00	0.00
ATOM	2268	HD2	PHE	147	-0.981	11.372	15.046	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.273	6.830	13.180	1.00	0.00
ATOM	2270	HE2	PHE	147	0.740	9.705	15.598	1.00	0.00
ATOM	2271	HZ	PHE	147	0.601	7.432	14.659	1.00	0.00
ATOM	2272	N	THR	148	-2.155	12.753	10.934	1.00	0.00
ATOM	2273	CA	THR	148	-1.291	12.888	9.764	1.00	0.00
ATOM	2277	C	THR	148	-0.500	14.190	9.822	1.00	0.00
ATOM	2278	O	THR	148	0.582	14.298	9.255	1.00	0.00
ATOM	2274	CB	THR	148	-2.089	12.837	8.452	1.00	0.00
ATOM	2275	CG1	THR	148	-3.431	12.424	8.720	1.00	0.00
ATOM	2276	CG2	THR	148	-1.437	11.881	7.467	1.00	0.00
ATOM	2279	H	THR	148	-3.135	12.773	10.816	1.00	0.00
ATOM	2280	HA	THR	148	-0.597	12.060	9.770	1.00	0.00
ATOM	2281	HB	THR	148	-2.105	13.823	8.018	1.00	0.00
ATOM	2282	HG1	THR	148	-3.709	11.764	8.075	1.00	0.00
ATOM	2283	1HG2	THR	148	-2.160	11.585	6.721	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.085	11.006	7.994	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.604	12.371	6.988	1.00	0.00
ATOM	2286	N	ALA	149	-1.036	15.175	10.522	1.00	0.00
ATOM	2287	CA	ALA	149	-0.356	16.451	10.667	1.00	0.00
ATOM	2289	C	ALA	149	0.606	16.393	11.845	1.00	0.00
ATOM	2290	O	ALA	149	1.615	17.091	11.874	1.00	0.00
ATOM	2288	CB	ALA	149	-1.362	17.579	10.843	1.00	0.00
ATOM	2291	H	ALA	149	-1.901	15.036	10.968	1.00	0.00
ATOM	2292	HA	ALA	149	0.210	16.631	9.764	1.00	0.00
ATOM	2293	1HB	ALA	149	-2.291	17.313	10.364	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.971	18.481	10.395	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.532	17.745	11.897	1.00	0.00
ATOM	2296	N	LEU	150	0.272	15.548	12.813	1.00	0.00
ATOM	2297	CA	LEU	150	1.084	15.378	14.008	1.00	0.00
ATOM	2302	C	LEU	150	2.455	14.807	13.668	1.00	0.00
ATOM	2303	O	LEU	150	3.481	15.330	14.105	1.00	0.00
ATOM	2298	CB	LEU	150	0.379	14.450	15.002	1.00	0.00
ATOM	2299	CG	LEU	150	-0.082	15.112	16.300	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.597	15.099	16.399	1.00	0.00
ATOM	2301	CD2	LEU	150	0.534	14.412	17.501	1.00	0.00
ATOM	2304	H	LEU	150	-0.553	15.026	12.721	1.00	0.00
ATOM	2305	HA	LEU	150	1.212	16.349	14.462	1.00	0.00
ATOM	2306	1HB	LEU	150	1.056	13.649	15.255	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.483	14.022	14.513	1.00	0.00
ATOM	2308	HG	LEU	150	0.244	16.140	16.308	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.018	14.859	15.435	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.945	16.072	16.712	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.904	14.358	17.122	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.282	14.954	18.401	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.607	14.380	17.388	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.148	13.405	17.568	1.00	0.00
ATOM	2315	N	TYR	151	2.472	13.718	12.912	1.00	0.00
ATOM	2316	CA	TYR	151	3.738	13.075	12.557	1.00	0.00
ATOM	2325	C	TYR	151	3.812	12.711	11.082	1.00	0.00
ATOM	2326	O	TYR	151	4.464	11.735	10.710	1.00	0.00
ATOM	2317	CB	TYR	151	3.930	11.816	13.392	1.00	0.00
ATOM	2318	CG	TYR	151	4.905	11.982	14.531	1.00	0.00
ATOM	2319	CD1	TYR	151	4.577	12.747	15.642	1.00	0.00
ATOM	2320	CD2	TYR	151	6.146	11.362	14.503	1.00	0.00



ATOM	2321	CE1	TYR	151	5.456	12.888	16.695	1.00	0.00
ATOM	2322	CE2	TYR	151	7.033	11.501	15.550	1.00	0.00
ATOM	2323	CZ	TYR	151	6.685	12.264	16.644	1.00	0.00
ATOM	2324	OH	TYR	151	7.564	12.391	17.692	1.00	0.00
ATOM	2327	H	TYR	151	1.618	13.327	12.608	1.00	0.00
ATOM	2328	HA	TYR	151	4.533	13.767	12.785	1.00	0.00
ATOM	2329	1HB	TYR	151	4.297	11.022	12.754	1.00	0.00
ATOM	2330	2HB	TYR	151	2.980	11.524	13.809	1.00	0.00
ATOM	2331	HD1	TYR	151	3.614	13.234	15.677	1.00	0.00
ATOM	2332	HD2	TYR	151	6.417	10.767	13.644	1.00	0.00
ATOM	2333	HE1	TYR	151	5.179	13.487	17.551	1.00	0.00
ATOM	2334	HE2	TYR	151	7.996	11.012	15.510	1.00	0.00
ATOM	2335	HH	TYR	151	7.630	11.541	18.154	1.00	0.00
ATOM	2336	N	GLY	152	3.148	13.479	10.243	1.00	0.00
ATOM	2337	CA	GLY	152	3.171	13.186	8.827	1.00	0.00
ATOM	2338	C	GLY	152	4.040	14.140	8.045	1.00	0.00
ATOM	2339	O	GLY	152	5.266	14.121	8.162	1.00	0.00
ATOM	2340	H	GLY	152	2.637	14.247	10.583	1.00	0.00
ATOM	2341	1HA	GLY	152	2.162	13.246	8.447	1.00	0.00
ATOM	2342	2HA	GLY	152	3.537	12.185	8.681	1.00	0.00
ATOM	2343	N	ASP	153	3.394	14.960	7.238	1.00	0.00
ATOM	2344	CA	ASP	153	4.082	15.935	6.400	1.00	0.00
ATOM	2349	C	ASP	153	4.672	17.057	7.242	1.00	0.00
ATOM	2350	O	ASP	153	5.893	17.196	7.351	1.00	0.00
ATOM	2345	CB	ASP	153	3.100	16.513	5.379	1.00	0.00
ATOM	2346	CG	ASP	153	3.766	16.915	4.078	1.00	0.00
ATOM	2347	OD1	ASP	153	4.793	17.624	4.120	1.00	0.00
ATOM	2348	OD2	ASP	153	3.253	16.531	3.008	1.00	0.00
ATOM	2351	H	ASP	153	2.418	14.903	7.198	1.00	0.00
ATOM	2352	HA	ASP	153	4.878	15.428	5.878	1.00	0.00
ATOM	2353	1HB	ASP	153	2.626	17.388	5.803	1.00	0.00
ATOM	2354	2HB	ASP	153	2.345	15.773	5.156	1.00	0.00
ATOM	2355	N	GLY	154	3.800	17.855	7.840	1.00	0.00
ATOM	2356	CA	GLY	154	4.247	18.957	8.665	1.00	0.00
ATOM	2357	C	GLY	154	4.382	18.573	10.124	1.00	0.00
ATOM	2358	O	GLY	154	3.607	19.022	10.962	1.00	0.00
ATOM	2359	H	GLY	154	2.841	17.695	7.718	1.00	0.00
ATOM	2360	1HA	GLY	154	3.536	19.765	8.581	1.00	0.00
ATOM	2361	2HA	GLY	154	5.206	19.297	8.303	1.00	0.00
ATOM	2362	N	ALA	155	5.373	17.746	10.426	1.00	0.00
ATOM	2363	CA	ALA	155	5.617	17.303	11.791	1.00	0.00
ATOM	2365	C	ALA	155	6.423	18.350	12.552	1.00	0.00
ATOM	2366	O	ALA	155	7.610	18.160	12.843	1.00	0.00
ATOM	2364	CB	ALA	155	6.335	15.960	11.792	1.00	0.00
ATOM	2367	H	ALA	155	5.957	17.430	9.714	1.00	0.00
ATOM	2368	HA	ALA	155	4.660	17.176	12.278	1.00	0.00
ATOM	2369	1HB	ALA	155	5.606	15.163	11.791	1.00	0.00
ATOM	2370	2HB	ALA	155	6.953	15.883	12.673	1.00	0.00
ATOM	2371	3HB	ALA	155	6.953	15.883	10.909	1.00	0.00
ATOM	2372	N	LEU	156	5.764	19.460	12.857	1.00	0.00
ATOM	2373	CA	LEU	156	6.374	20.567	13.570	1.00	0.00
ATOM	2378	C	LEU	156	6.736	20.167	14.994	1.00	0.00
ATOM	2379	O	LEU	156	6.267	19.144	15.501	1.00	0.00
ATOM	2374	CB	LEU	156	5.409	21.755	13.592	1.00	0.00
ATOM	2375	CG	LEU	156	3.927	21.391	13.733	1.00	0.00
ATOM	2376	CD1	LEU	156	3.294	22.152	14.882	1.00	0.00
ATOM	2377	CD2	LEU	156	3.174	21.680	12.444	1.00	0.00
ATOM	2380	H	LEU	156	4.829	19.541	12.586	1.00	0.00
ATOM	2381	HA	LEU	156	7.272	20.852	13.043	1.00	0.00
ATOM	2382	1HB	LEU	156	5.535	22.313	12.677	1.00	0.00
ATOM	2383	2HB	LEU	156	5.679	22.388	14.419	1.00	0.00
ATOM	2384	HG	LEU	156	3.841	20.334	13.946	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.239	22.281	14.691	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.763	23.121	14.974	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.428	21.598	15.799	1.00	0.00
ATOM	2388	1HD2	LEU	156	3.879	21.785	11.632	1.00	0.00
ATOM	2389	2HD2	LEU	156	2.610	22.594	12.553	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.500	20.863	12.233	1.00	0.00
ATOM	2391	N	GLU	157	7.566	20.980	15.636	1.00	0.00
ATOM	2392	CA	GLU	157	7.993	20.719	17.004	1.00	0.00
ATOM	2398	C	GLU	157	6.799	20.648	17.947	1.00	0.00
ATOM	2399	O	GLU	157	6.788	19.854	18.883	1.00	0.00
ATOM	2393	CB	GLU	157	8.959	21.804	17.481	1.00	0.00



ATOM	2394	CG	GLU	157	9.950	21.323	18.533	1.00	0.00
ATOM	2395	CD	GLU	157	9.758	21.997	19.880	1.00	0.00
ATOM	2396	OE1	GLU	157	8.815	21.626	20.611	1.00	0.00
ATOM	2397	OE2	GLU	157	10.559	22.890	20.219	1.00	0.00
ATOM	2400	H	GLU	157	7.900	21.780	15.176	1.00	0.00
ATOM	2401	HA	GLU	157	8.503	19.772	17.019	1.00	0.00
ATOM	2402	1HB	GLU	157	8.386	22.612	17.901	1.00	0.00
ATOM	2403	2HB	GLU	157	9.517	22.173	16.632	1.00	0.00
ATOM	2404	1HG	GLU	157	10.951	21.530	18.183	1.00	0.00
ATOM	2405	2HG	GLU	157	9.828	20.258	18.661	1.00	0.00
ATOM	2406	N	GLU	158	5.793	21.478	17.696	1.00	0.00
ATOM	2407	CA	GLU	158	4.606	21.499	18.544	1.00	0.00
ATOM	2413	C	GLU	158	3.795	20.219	18.394	1.00	0.00
ATOM	2414	O	GLU	158	3.277	19.691	19.372	1.00	0.00
ATOM	2408	CB	GLU	158	3.737	22.716	18.239	1.00	0.00
ATOM	2409	CG	GLU	158	4.504	24.026	18.240	1.00	0.00
ATOM	2410	CD	GLU	158	4.239	24.840	16.996	1.00	0.00
ATOM	2411	OE1	GLU	158	3.134	25.398	16.876	1.00	0.00
ATOM	2412	OE2	GLU	158	5.129	24.907	16.123	1.00	0.00
ATOM	2415	H	GLU	158	5.851	22.085	16.926	1.00	0.00
ATOM	2416	HA	GLU	158	4.944	21.567	19.567	1.00	0.00
ATOM	2417	1HB	GLU	158	2.955	22.780	18.981	1.00	0.00
ATOM	2418	2HB	GLU	158	3.288	22.587	17.265	1.00	0.00
ATOM	2419	1HG	GLU	158	5.561	23.811	18.296	1.00	0.00
ATOM	2420	2HG	GLU	158	4.206	24.604	19.101	1.00	0.00
ATOM	2421	N	ALA	159	3.700	19.712	17.174	1.00	0.00
ATOM	2422	CA	ALA	159	2.958	18.484	16.922	1.00	0.00
ATOM	2424	C	ALA	159	3.694	17.293	17.517	1.00	0.00
ATOM	2425	O	ALA	159	3.087	16.392	18.097	1.00	0.00
ATOM	2423	CB	ALA	159	2.743	18.289	15.429	1.00	0.00
ATOM	2426	H	ALA	159	4.144	20.167	16.430	1.00	0.00
ATOM	2427	HA	ALA	159	1.992	18.572	17.399	1.00	0.00
ATOM	2428	1HB	ALA	159	3.538	18.776	14.884	1.00	0.00
ATOM	2429	2HB	ALA	159	1.794	18.718	15.142	1.00	0.00
ATOM	2430	3HB	ALA	159	2.743	17.233	15.201	1.00	0.00
ATOM	2431	N	ARG	160	5.010	17.305	17.380	1.00	0.00
ATOM	2432	CA	ARG	160	5.844	16.234	17.907	1.00	0.00
ATOM	2440	C	ARG	160	5.834	16.238	19.432	1.00	0.00
ATOM	2441	O	ARG	160	5.595	15.205	20.059	1.00	0.00
ATOM	2433	CB	ARG	160	7.268	16.360	17.377	1.00	0.00
ATOM	2434	CG	ARG	160	7.378	16.062	15.892	1.00	0.00
ATOM	2435	CD	ARG	160	8.796	15.698	15.501	1.00	0.00
ATOM	2436	NE	ARG	160	9.308	16.565	14.442	1.00	0.00
ATOM	2437	CZ	ARG	160	10.602	16.733	14.181	1.00	0.00
ATOM	2438	NH1	ARG	160	11.516	16.110	14.919	1.00	0.00
ATOM	2439	NH2	ARG	160	10.979	17.532	13.190	1.00	0.00
ATOM	2442	H	ARG	160	5.435	18.059	16.912	1.00	0.00
ATOM	2443	HA	ARG	160	5.427	15.298	17.563	1.00	0.00
ATOM	2444	1HB	ARG	160	7.904	15.668	17.910	1.00	0.00
ATOM	2445	2HB	ARG	160	7.620	17.367	17.551	1.00	0.00
ATOM	2446	1HG	ARG	160	7.075	16.938	15.337	1.00	0.00
ATOM	2447	2HG	ARG	160	6.726	15.236	15.649	1.00	0.00
ATOM	2448	1HD	ARG	160	8.809	14.676	15.154	1.00	0.00
ATOM	2449	2HD	ARG	160	9.432	15.794	16.368	1.00	0.00
ATOM	2450	HE	ARG	160	8.643	17.046	13.889	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.232	15.512	15.680	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.499	16.220	14.717	1.00	0.00
ATOM	2453	1HH2	ARG	160	10.290	18.005	12.634	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.960	17.673	12.995	1.00	0.00
ATOM	2455	N	ARG	161	6.069	17.407	20.026	1.00	0.00
ATOM	2456	CA	ARG	161	6.067	17.538	21.479	1.00	0.00
ATOM	2464	C	ARG	161	4.690	17.200	22.041	1.00	0.00
ATOM	2465	O	ARG	161	4.570	16.726	23.172	1.00	0.00
ATOM	2457	CB	ARG	161	6.487	18.949	21.907	1.00	0.00
ATOM	2458	CG	ARG	161	5.399	19.998	21.743	1.00	0.00
ATOM	2459	CD	ARG	161	5.922	21.396	22.027	1.00	0.00
ATOM	2460	NE	ARG	161	6.106	21.629	23.457	1.00	0.00
ATOM	2461	CZ	ARG	161	7.272	21.944	24.015	1.00	0.00
ATOM	2462	NH1	ARG	161	8.359	22.104	23.265	1.00	0.00
ATOM	2463	NH2	ARG	161	7.351	22.104	25.330	1.00	0.00
ATOM	2466	H	ARG	161	6.239	18.204	19.473	1.00	0.00
ATOM	2467	HA	ARG	161	6.780	16.829	21.871	1.00	0.00
ATOM	2468	1HB	ARG	161	7.339	19.249	21.314	1.00	0.00



ATOM	2469	2HB	ARG	161	6.777	18.924	22.947	1.00	0.00
ATOM	2470	1HG	ARG	161	4.593	19.777	22.425	1.00	0.00
ATOM	2471	2HG	ARG	161	5.033	19.960	20.728	1.00	0.00
ATOM	2472	1HD	ARG	161	5.215	22.117	21.640	1.00	0.00
ATOM	2473	2HD	ARG	161	6.871	21.520	21.527	1.00	0.00
ATOM	2474	HE	ARG	161	5.309	21.531	24.038	1.00	0.00
ATOM	2475	1HH1	ARG	161	8.309	21.987	22.259	1.00	0.00
ATOM	2476	2HH1	ARG	161	9.235	22.334	23.689	1.00	0.00
ATOM	2477	1HH2	ARG	161	6.534	21.993	25.899	1.00	0.00
ATOM	2478	2HH2	ARG	161	8.236	22.327	25.761	1.00	0.00
ATOM	2479	N	LEU	162	3.657	17.432	21.234	1.00	0.00
ATOM	2480	CA	LEU	162	2.293	17.139	21.637	1.00	0.00
ATOM	2485	C	LEU	162	2.106	15.640	21.768	1.00	0.00
ATOM	2486	O	LEU	162	1.488	15.169	22.715	1.00	0.00
ATOM	2481	CB	LEU	162	1.294	17.701	20.623	1.00	0.00
ATOM	2482	CG	LEU	162	0.214	18.611	21.208	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.237	19.628	20.171	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.969	17.789	21.700	1.00	0.00
ATOM	2487	H	LEU	162	3.823	17.801	20.341	1.00	0.00
ATOM	2488	HA	LEU	162	2.125	17.597	22.600	1.00	0.00
ATOM	2489	1HB	LEU	162	0.806	16.870	20.134	1.00	0.00
ATOM	2490	2HB	LEU	162	1.843	18.260	19.881	1.00	0.00
ATOM	2491	HG	LEU	162	0.621	19.150	22.049	1.00	0.00
ATOM	2492	1HD1	LEU	162	-1.222	19.992	20.428	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.270	19.161	19.198	1.00	0.00
ATOM	2494	3HD1	LEU	162	0.458	20.454	20.151	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.763	16.738	21.556	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.854	18.061	21.143	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.130	17.985	22.749	1.00	0.00
ATOM	2498	N	ARG	163	2.654	14.891	20.817	1.00	0.00
ATOM	2499	CA	ARG	163	2.550	13.439	20.847	1.00	0.00
ATOM	2507	C	ARG	163	3.336	12.879	22.025	1.00	0.00
ATOM	2508	O	ARG	163	2.851	12.001	22.740	1.00	0.00
ATOM	2500	CB	ARG	163	3.052	12.822	19.540	1.00	0.00
ATOM	2501	CG	ARG	163	2.599	11.383	19.341	1.00	0.00
ATOM	2502	CD	ARG	163	2.665	10.969	17.880	1.00	0.00
ATOM	2503	NE	ARG	163	3.805	10.090	17.613	1.00	0.00
ATOM	2504	CZ	ARG	163	3.935	9.338	16.520	1.00	0.00
ATOM	2505	NH1	ARG	163	2.971	9.307	15.610	1.00	0.00
ATOM	2506	NH2	ARG	163	5.036	8.623	16.347	1.00	0.00
ATOM	2509	H	ARG	163	3.149	15.328	20.085	1.00	0.00
ATOM	2510	HA	ARG	163	1.508	13.188	20.977	1.00	0.00
ATOM	2511	1HB	ARG	163	4.133	12.841	19.537	1.00	0.00
ATOM	2512	2HB	ARG	163	2.688	13.412	18.711	1.00	0.00
ATOM	2513	1HG	ARG	163	1.580	11.284	19.687	1.00	0.00
ATOM	2514	2HG	ARG	163	3.241	10.732	19.915	1.00	0.00
ATOM	2515	1HD	ARG	163	2.762	11.858	17.274	1.00	0.00
ATOM	2516	2HD	ARG	163	1.751	10.457	17.619	1.00	0.00
ATOM	2517	HE	ARG	163	4.532	10.076	18.282	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.138	9.846	15.742	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.073	8.748	14.785	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.773	8.658	17.047	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.157	8.057	15.529	1.00	0.00
ATOM	2522	N	GLU	164	4.543	13.400	22.227	1.00	0.00
ATOM	2523	CA	GLU	164	5.396	12.958	23.325	1.00	0.00
ATOM	2529	C	GLU	164	4.747	13.265	24.670	1.00	0.00
ATOM	2530	O	GLU	164	4.678	12.402	25.548	1.00	0.00
ATOM	2524	CB	GLU	164	6.770	13.632	23.240	1.00	0.00
ATOM	2525	CG	GLU	164	7.925	12.632	23.266	1.00	0.00
ATOM	2526	CD	GLU	164	9.005	12.969	22.260	1.00	0.00
ATOM	2527	OE1	GLU	164	8.784	13.846	21.408	1.00	0.00
ATOM	2528	OE2	GLU	164	10.084	12.345	22.317	1.00	0.00
ATOM	2531	H	GLU	164	4.869	14.103	21.621	1.00	0.00
ATOM	2532	HA	GLU	164	5.517	11.889	23.237	1.00	0.00
ATOM	2533	1HB	GLU	164	6.883	14.296	24.076	1.00	0.00
ATOM	2534	2HB	GLU	164	6.828	14.185	22.322	1.00	0.00
ATOM	2535	1HG	GLU	164	7.546	11.642	23.044	1.00	0.00
ATOM	2536	2HG	GLU	164	8.363	12.633	24.252	1.00	0.00
ATOM	2537	N	GLY	165	4.253	14.489	24.820	1.00	0.00
ATOM	2538	CA	GLY	165	3.603	14.874	26.057	1.00	0.00
ATOM	2539	C	GLY	165	2.289	14.145	26.251	1.00	0.00
ATOM	2540	O	GLY	165	1.812	13.989	27.375	1.00	0.00
ATOM	2541	H	GLY	165	4.321	15.136	24.080	1.00	0.00



ATOM	2542	1HA	GLY	165	3.415	15.936	26.040	1.00	0.00
ATOM	2543	2HA	GLY	165	4.259	14.644	26.885	1.00	0.00
ATOM	2544	N	ASN	166	1.712	13.698	25.145	1.00	0.00
ATOM	2545	CA	ASN	166	0.447	12.980	25.168	1.00	0.00
ATOM	2550	C	ASN	166	0.621	11.559	25.681	1.00	0.00
ATOM	2551	O	ASN	166	-0.059	11.143	26.622	1.00	0.00
ATOM	2546	CB	ASN	166	-0.164	12.933	23.769	1.00	0.00
ATOM	2547	CG	ASN	166	-1.636	13.275	23.770	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.329	13.080	24.765	1.00	0.00
ATOM	2549	ND2	ASN	166	-2.123	13.788	22.651	1.00	0.00
ATOM	2552	H	ASN	166	2.150	13.860	24.284	1.00	0.00
ATOM	2553	HA	ASN	166	-0.227	13.510	25.826	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.046	11.937	23.366	1.00	0.00
ATOM	2555	2HB	ASN	166	0.349	13.636	23.133	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.512	13.919	21.898	1.00	0.00
ATOM	2557	2HD2	ASN	166	-3.079	14.005	22.621	1.00	0.00
ATOM	2558	N	TRP	167	1.525	10.808	25.055	1.00	0.00
ATOM	2559	CA	TRP	167	1.759	9.431	25.452	1.00	0.00
ATOM	2570	C	TRP	167	2.312	9.357	26.862	1.00	0.00
ATOM	2571	O	TRP	167	2.145	8.343	27.535	1.00	0.00
ATOM	2560	CB	TRP	167	2.655	8.672	24.445	1.00	0.00
ATOM	2561	CG	TRP	167	4.126	9.006	24.476	1.00	0.00
ATOM	2562	CD1	TRP	167	4.811	9.735	23.549	1.00	0.00
ATOM	2563	CD2	TRP	167	5.097	8.587	25.448	1.00	0.00
ATOM	2564	NE1	TRP	167	6.139	9.815	23.894	1.00	0.00
ATOM	2565	CE2	TRP	167	6.339	9.122	25.055	1.00	0.00
ATOM	2566	CE3	TRP	167	5.036	7.825	26.618	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.505	8.914	25.789	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.192	7.620	27.344	1.00	0.00
ATOM	2569	CH2	TRP	167	7.414	8.163	26.928	1.00	0.00
ATOM	2572	H	TRP	167	2.032	11.188	24.311	1.00	0.00
ATOM	2573	HA	TRP	167	0.791	8.947	25.461	1.00	0.00
ATOM	2574	1HB	TRP	167	2.295	8.875	23.446	1.00	0.00
ATOM	2575	2HB	TRP	167	2.565	7.615	24.635	1.00	0.00
ATOM	2576	HD1	TRP	167	4.361	10.186	22.678	1.00	0.00
ATOM	2577	HE1	TRP	167	6.829	10.294	23.390	1.00	0.00
ATOM	2578	HE3	TRP	167	4.098	7.397	26.956	1.00	0.00
ATOM	2579	H22	TRP	167	8.455	9.327	25.481	1.00	0.00
ATOM	2580	H23	TRP	167	6.162	7.031	28.249	1.00	0.00
ATOM	2581	HM2	TRP	167	8.293	7.978	27.526	1.00	0.00
ATOM	2582	N	ALA	168	2.948	10.430	27.311	1.00	0.00
ATOM	2583	CA	ALA	168	3.506	10.473	28.652	1.00	0.00
ATOM	2585	C	ALA	168	2.461	10.069	29.687	1.00	0.00
ATOM	2586	O	ALA	168	2.701	9.182	30.502	1.00	0.00
ATOM	2584	CB	ALA	168	4.051	11.859	28.959	1.00	0.00
ATOM	2587	H	ALA	168	3.040	11.214	26.727	1.00	0.00
ATOM	2588	HA	ALA	168	4.322	9.771	28.693	1.00	0.00
ATOM	2589	1HB	ALA	168	4.910	11.773	29.605	1.00	0.00
ATOM	2590	2HB	ALA	168	3.288	12.447	29.452	1.00	0.00
ATOM	2591	3HB	ALA	168	4.338	12.343	28.038	1.00	0.00
ATOM	2592	N	SER	169	1.310	10.725	29.646	1.00	0.00
ATOM	2593	CA	SER	169	0.231	10.440	30.579	1.00	0.00
ATOM	2596	C	SER	169	-0.701	9.320	30.094	1.00	0.00
ATOM	2597	O	SER	169	-1.318	8.636	30.911	1.00	0.00
ATOM	2594	CB	SER	169	-0.564	11.717	30.837	1.00	0.00
ATOM	2595	OG	SER	169	0.250	12.861	30.631	1.00	0.00
ATOM	2598	H	SER	169	1.184	11.425	28.971	1.00	0.00
ATOM	2599	HA	SER	169	0.681	10.122	31.512	1.00	0.00
ATOM	2600	1HB	SER	169	-0.917	11.720	31.857	1.00	0.00
ATOM	2601	2HB	SER	169	-1.405	11.761	30.162	1.00	0.00
ATOM	2602	HG	SER	169	1.071	12.762	31.134	1.00	0.00
ATOM	2603	N	VAL	170	-0.831	9.126	28.780	1.00	0.00
ATOM	2604	CA	VAL	170	-1.739	8.083	28.279	1.00	0.00
ATOM	2608	C	VAL	170	-1.116	6.695	28.345	1.00	0.00
ATOM	2609	O	VAL	170	-1.819	5.690	28.444	1.00	0.00
ATOM	2605	CB	VAL	170	-2.254	8.350	26.846	1.00	0.00
ATOM	2606	CG1	VAL	170	-2.973	9.686	26.775	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.139	8.275	25.819	1.00	0.00
ATOM	2610	H	VAL	170	-0.329	9.692	28.148	1.00	0.00
ATOM	2611	HA	VAL	170	-2.599	8.084	28.934	1.00	0.00
ATOM	2612	HB	VAL	170	-2.967	7.580	26.607	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.370	9.933	27.748	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.782	9.622	26.061	1.00	0.00



ATOM	2615	3HG1	VAL	170	-2.279	10.452	26.463	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.186	8.242	26.325	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.176	9.147	25.180	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.259	7.384	25.220	1.00	0.00
ATOM	2619	N	ARG	171	0.197	6.631	28.304	1.00	0.00
ATOM	2620	CA	ARG	171	0.883	5.354	28.377	1.00	0.00
ATOM	2628	C	ARG	171	1.022	4.933	29.836	1.00	0.00
ATOM	2629	O	ARG	171	1.298	3.772	30.133	1.00	0.00
ATOM	2621	CB	ARG	171	2.249	5.438	27.689	1.00	0.00
ATOM	2622	CG	ARG	171	2.817	4.093	27.262	1.00	0.00
ATOM	2623	CD	ARG	171	3.786	4.246	26.099	1.00	0.00
ATOM	2624	NE	ARG	171	5.139	4.576	26.549	1.00	0.00
ATOM	2625	CZ	ARG	171	6.255	4.167	25.942	1.00	0.00
ATOM	2626	NH1	ARG	171	6.186	3.395	24.862	1.00	0.00
ATOM	2627	NH2	ARG	171	7.441	4.532	26.420	1.00	0.00
ATOM	2630	H	ARG	171	0.721	7.461	28.230	1.00	0.00
ATOM	2631	HA	ARG	171	0.273	4.624	27.863	1.00	0.00
ATOM	2632	1HB	ARG	171	2.950	5.906	28.363	1.00	0.00
ATOM	2633	2HB	ARG	171	2.147	6.054	26.803	1.00	0.00
ATOM	2634	1HG	ARG	171	2.005	3.449	26.960	1.00	0.00
ATOM	2635	2HG	ARG	171	3.340	3.652	28.097	1.00	0.00
ATOM	2636	1HD	ARG	171	3.430	5.036	25.451	1.00	0.00
ATOM	2637	2HD	ARG	171	3.818	3.317	25.548	1.00	0.00
ATOM	2638	HE	ARG	171	5.218	5.143	27.349	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.294	3.116	24.501	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.023	3.093	24.405	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.499	5.113	27.237	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.283	4.232	25.970	1.00	0.00
ATOM	2643	N	THR	172	0.807	5.886	30.742	1.00	0.00
ATOM	2644	CA	THR	172	0.895	5.623	32.172	1.00	0.00
ATOM	2648	C	THR	172	-0.474	5.339	32.767	1.00	0.00
ATOM	2649	O	THR	172	-0.609	4.469	33.623	1.00	0.00
ATOM	2645	CB	THR	172	1.535	6.807	32.922	1.00	0.00
ATOM	2646	OG1	THR	172	1.232	8.029	32.245	1.00	0.00
ATOM	2647	CG2	THR	172	3.042	6.631	33.024	1.00	0.00
ATOM	2650	H	THR	172	0.577	6.790	30.441	1.00	0.00
ATOM	2651	HA	THR	172	1.514	4.748	32.316	1.00	0.00
ATOM	2652	HB	THR	172	1.122	6.853	33.917	1.00	0.00
ATOM	2653	HG1	THR	172	2.010	8.324	31.744	1.00	0.00
ATOM	2654	1HG2	THR	172	3.339	6.683	34.060	1.00	0.00
ATOM	2655	2HG2	THR	172	3.534	7.416	32.469	1.00	0.00
ATOM	2656	3HG2	THR	172	3.321	5.671	32.615	1.00	0.00
ATOM	2657	N	VAL	173	-1.492	6.065	32.317	1.00	0.00
ATOM	2658	CA	VAL	173	-2.844	5.860	32.830	1.00	0.00
ATOM	2662	C	VAL	173	-3.298	4.421	32.577	1.00	0.00
ATOM	2663	O	VAL	173	-4.015	3.830	33.382	1.00	0.00
ATOM	2659	CB	VAL	173	-3.844	6.870	32.218	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.967	6.706	30.714	1.00	0.00
ATOM	2661	CG2	VAL	173	-5.207	6.755	32.884	1.00	0.00
ATOM	2664	H	VAL	173	-1.334	6.755	31.631	1.00	0.00
ATOM	2665	HA	VAL	173	-2.813	6.026	33.899	1.00	0.00
ATOM	2666	HB	VAL	173	-3.463	7.858	32.405	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.911	5.657	30.460	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.163	7.237	30.226	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.915	7.105	30.384	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.395	5.723	33.145	1.00	0.00
ATOM	2671	2HG2	VAL	173	-5.969	7.098	32.201	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.223	7.362	33.776	1.00	0.00
ATOM	2673	N	LEU	174	-2.845	3.858	31.468	1.00	0.00
ATOM	2674	CA	LEU	174	-3.179	2.483	31.117	1.00	0.00
ATOM	2679	C	LEU	174	-1.924	1.610	31.105	1.00	0.00
ATOM	2680	O	LEU	174	-1.708	0.817	30.186	1.00	0.00
ATOM	2675	CB	LEU	174	-3.885	2.421	29.757	1.00	0.00
ATOM	2676	CG	LEU	174	-4.488	3.743	29.285	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.367	3.882	27.776	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.942	3.856	29.719	1.00	0.00
ATOM	2681	H	LEU	174	-2.261	4.380	30.881	1.00	0.00
ATOM	2682	HA	LEU	174	-3.851	2.106	31.875	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.679	1.692	29.820	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.170	2.088	29.017	1.00	0.00
ATOM	2685	HG	LEU	174	-3.937	4.555	29.741	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.344	4.111	27.516	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.012	4.679	27.436	1.00	0.00



ATOM	2688	3HD1	LEU	174	-4.661	2.957	27.304	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.403	4.696	29.220	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.987	4.004	30.788	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.468	2.951	29.457	1.00	0.00
ATOM	2692	N	THR	175	-1.088	1.773	32.127	1.00	0.00
ATOM	2693	CA	THR	175	0.149	1.000	32.240	1.00	0.00
ATOM	2697	C	THR	175	-0.142	-0.488	32.433	1.00	0.00
ATOM	2698	O	THR	175	0.509	-1.342	31.829	1.00	0.00
ATOM	2694	CB	THR	175	1.010	1.480	33.426	1.00	0.00
ATOM	2695	OG1	THR	175	0.187	2.159	34.385	1.00	0.00
ATOM	2696	CG2	THR	175	2.126	2.399	32.956	1.00	0.00
ATOM	2699	H	THR	175	-1.304	2.437	32.819	1.00	0.00
ATOM	2700	HA	THR	175	0.714	1.135	31.329	1.00	0.00
ATOM	2701	HB	THR	175	1.454	0.615	33.897	1.00	0.00
ATOM	2702	HG1	THR	175	-0.042	3.040	34.050	1.00	0.00
ATOM	2703	1HG2	THR	175	1.881	3.421	33.208	1.00	0.00
ATOM	2704	2HG2	THR	175	2.239	2.311	31.885	1.00	0.00
ATOM	2705	3HG2	THR	175	3.050	2.120	33.439	1.00	0.00
ATOM	2706	N	GLY	176	-1.119	-0.787	33.288	1.00	0.00
ATOM	2707	CA	GLY	176	-1.486	-2.167	33.576	1.00	0.00
ATOM	2708	C	GLY	176	-2.279	-2.833	32.465	1.00	0.00
ATOM	2709	O	GLY	176	-3.226	-3.568	32.728	1.00	0.00
ATOM	2710	H	GLY	176	-1.591	-0.058	33.743	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.078	-2.181	34.479	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.587	-2.737	33.744	1.00	0.00
ATOM	2713	N	ALA	177	-1.883	-2.593	31.227	1.00	0.00
ATOM	2714	CA	ALA	177	-2.550	-3.192	30.080	1.00	0.00
ATOM	2716	C	ALA	177	-1.743	-4.380	29.574	1.00	0.00
ATOM	2717	O	ALA	177	-2.157	-5.089	28.663	1.00	0.00
ATOM	2715	CB	ALA	177	-2.733	-2.164	28.980	1.00	0.00
ATOM	2718	H	ALA	177	-1.108	-2.007	31.079	1.00	0.00
ATOM	2719	HA	ALA	177	-3.527	-3.536	30.394	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.752	-1.805	28.989	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.520	-2.617	28.024	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.059	-1.336	29.145	1.00	0.00
ATOM	2723	N	VAL	178	-0.584	-4.589	30.185	1.00	0.00
ATOM	2724	CA	VAL	178	0.302	-5.689	29.819	1.00	0.00
ATOM	2728	C	VAL	178	-0.203	-7.001	30.417	1.00	0.00
ATOM	2729	O	VAL	178	0.417	-7.573	31.313	1.00	0.00
ATOM	2725	CB	VAL	178	1.750	-5.433	30.294	1.00	0.00
ATOM	2726	CG1	VAL	178	2.738	-6.231	29.460	1.00	0.00
ATOM	2727	CG2	VAL	178	2.084	-3.948	30.241	1.00	0.00
ATOM	2730	H	VAL	178	-0.318	-3.990	30.909	1.00	0.00
ATOM	2731	HA	VAL	178	0.305	-5.773	28.741	1.00	0.00
ATOM	2732	HB	VAL	178	1.834	-5.761	31.321	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.091	-7.076	30.032	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.576	-5.602	29.194	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.251	-6.579	28.561	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.169	-3.374	30.218	1.00	0.00
ATOM	2737	2HG2	VAL	178	2.660	-3.740	29.351	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.658	-3.676	31.114	1.00	0.00
ATOM	2739	N	ALA	179	-1.346	-7.454	29.926	1.00	0.00
ATOM	2740	CA	ALA	179	-1.961	-8.682	30.413	1.00	0.00
ATOM	2742	C	ALA	179	-1.645	-9.865	29.500	1.00	0.00
ATOM	2743	O	ALA	179	-2.196	-10.954	29.666	1.00	0.00
ATOM	2741	CB	ALA	179	-3.465	-8.499	30.538	1.00	0.00
ATOM	2744	H	ALA	179	-1.799	-6.934	29.227	1.00	0.00
ATOM	2745	HA	ALA	179	-1.564	-8.885	31.396	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.763	-8.658	31.564	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.969	-9.213	29.902	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.734	-7.497	30.237	1.00	0.00
ATOM	2749	N	LEU	180	-0.756	-9.651	28.540	1.00	0.00
ATOM	2750	CA	LEU	180	-0.376	-10.708	27.616	1.00	0.00
ATOM	2755	C	LEU	180	0.825	-11.471	28.154	1.00	0.00
ATOM	2756	O	LEU	180	0.851	-12.703	28.124	1.00	0.00
ATOM	2751	CB	LEU	180	-0.057	-10.142	26.233	1.00	0.00
ATOM	2752	CG	LEU	180	-0.973	-9.018	25.752	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.369	-8.333	24.540	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.355	-9.558	25.424	1.00	0.00
ATOM	2757	H	LEU	180	-0.343	-8.765	28.454	1.00	0.00
ATOM	2758	HA	LEU	180	-1.210	-11.390	27.533	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.112	-10.950	25.518	1.00	0.00
ATOM	2760	2HB	LEU	180	0.956	-9.768	26.248	1.00	0.00



ATOM	2761	HG	LEU	180	-1.076	-8.283	26.538	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.379	-9.012	23.701	1.00	0.00
ATOM	2763	2HD1	LEU	180	0.648	-8.045	24.759	1.00	0.00
ATOM	2764	3HD1	LEU	180	-0.949	-7.454	24.297	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.670	-10.240	26.200	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.321	-10.080	24.479	1.00	0.00
ATOM	2767	3HD2	LEU	180	-3.055	-8.740	25.358	1.00	0.00
ATOM	2768	N	GLY	181	1.811	-10.722	28.637	1.00	0.00
ATOM	2769	CA	GLY	181	3.018	-11.303	29.183	1.00	0.00
ATOM	2770	C	GLY	181	2.736	-12.193	30.370	1.00	0.00
ATOM	2771	O	GLY	181	2.504	-11.718	31.484	1.00	0.00
ATOM	2772	H	GLY	181	1.720	-9.749	28.615	1.00	0.00
ATOM	2773	1HA	GLY	181	3.680	-10.508	29.490	1.00	0.00
ATOM	2774	2HA	GLY	181	3.505	-11.886	28.415	1.00	0.00
ATOM	2775	N	ALA	182	2.746	-13.488	30.124	1.00	0.00
ATOM	2776	CA	ALA	182	2.488	-14.467	31.161	1.00	0.00
ATOM	2778	C	ALA	182	3.782	-15.133	31.606	1.00	0.00
ATOM	2779	O	ALA	182	4.762	-15.159	30.860	1.00	0.00
ATOM	2777	CB	ALA	182	1.501	-15.513	30.663	1.00	0.00
ATOM	2780	H	ALA	182	2.931	-13.792	29.211	1.00	0.00
ATOM	2781	HA	ALA	182	2.046	-13.957	32.004	1.00	0.00
ATOM	2782	1HB	ALA	182	1.817	-15.875	29.695	1.00	0.00
ATOM	2783	2HB	ALA	182	0.520	-15.070	30.580	1.00	0.00
ATOM	2784	3HB	ALA	182	1.466	-16.337	31.361	1.00	0.00
ATOM	2785	N	LEU	183	3.777	-15.670	32.814	1.00	0.00
ATOM	2790	CA	LEU	183	4.946	-16.342	33.358	1.00	0.00
ATOM	2791	C	LEU	183	4.564	-17.733	33.841	1.00	0.00
ATOM	2792	O	LEU	183	5.456	-18.592	33.974	1.00	0.00
ATOM	2786	CB	LEU	183	5.541	-15.525	34.508	1.00	0.00
ATOM	2787	CG	LEU	183	6.984	-15.062	34.299	1.00	0.00
ATOM	2788	CD1	LEU	183	7.050	-13.975	33.237	1.00	0.00
ATOM	2789	CD2	LEU	183	7.577	-14.565	35.608	1.00	0.00
ATOM	2793	OXT	LEU	183	3.357	-17.964	34.078	1.00	0.00
ATOM	2794	H	LEU	183	2.962	-15.623	33.357	1.00	0.00
ATOM	2795	HA	LEU	183	5.679	-16.431	32.570	1.00	0.00
ATOM	2796	1HB	LEU	183	5.506	-16.127	35.404	1.00	0.00
ATOM	2797	2HB	LEU	183	4.923	-14.652	34.657	1.00	0.00
ATOM	2798	HG	LEU	183	7.578	-15.899	33.959	1.00	0.00
ATOM	2799	1HD1	LEU	183	8.070	-13.634	33.133	1.00	0.00
ATOM	2800	2HD1	LEU	183	6.423	-13.146	33.531	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.705	-14.371	32.294	1.00	0.00
ATOM	2802	1HD2	LEU	183	7.250	-15.203	36.417	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.249	-13.553	35.791	1.00	0.00
ATOM	2804	3HD2	LEU	183	8.655	-14.589	35.545	1.00	0.00
ENDMDL									
MODEL									
	9								
ATOM	3	N	GLY	-4	9.229	0.419	-12.427	1.00	0.00
ATOM	4	CA	GLY	-4	7.895	1.059	-12.372	1.00	0.00
ATOM	1	C	GLY	-4	6.903	0.387	-13.294	1.00	0.00
ATOM	2	O	GLY	-4	7.294	-0.415	-14.143	1.00	0.00
ATOM	5	1HA	GLY	-4	7.523	1.008	-11.359	1.00	0.00
ATOM	6	2HA	GLY	-4	7.993	2.096	-12.658	1.00	0.00
ATOM	7	1HT	GLY	-4	9.383	-0.010	-13.363	1.00	0.00
ATOM	8	2HT	GLY	-4	9.298	-0.329	-11.704	1.00	0.00
ATOM	9	3HT	GLY	-4	9.974	1.127	-12.253	1.00	0.00
ATOM	10	N	PRO	-3	5.603	0.689	-13.146	1.00	0.00
ATOM	11	CA	PRO	-3	4.547	0.103	-13.972	1.00	0.00
ATOM	15	C	PRO	-3	4.507	0.713	-15.369	1.00	0.00
ATOM	16	O	PRO	-3	4.886	1.868	-15.562	1.00	0.00
ATOM	12	CB	PRO	-3	3.252	0.438	-13.210	1.00	0.00
ATOM	13	CG	PRO	-3	3.681	1.058	-11.918	1.00	0.00
ATOM	14	CD	PRO	-3	5.051	1.619	-12.157	1.00	0.00
ATOM	17	HA	PRO	-3	4.655	-0.968	-14.050	1.00	0.00
ATOM	18	1HB	PRO	-3	2.689	-0.469	-13.042	1.00	0.00
ATOM	19	2HB	PRO	-3	2.659	1.126	-13.796	1.00	0.00
ATOM	20	1HG	PRO	-3	3.715	0.305	-11.145	1.00	0.00
ATOM	21	2HG	PRO	-3	2.997	1.846	-11.644	1.00	0.00
ATOM	22	1HD	PRO	-3	5.632	1.607	-11.248	1.00	0.00
ATOM	23	2HD	PRO	-3	4.987	2.620	-12.559	1.00	0.00
ATOM	24	N	LEU	-2	4.047	-0.065	-16.340	1.00	0.00
ATOM	25	CA	LEU	-2	3.964	0.408	-17.718	1.00	0.00
ATOM	30	C	LEU	-2	2.514	0.644	-18.128	1.00	0.00
ATOM	31	O	LEU	-2	2.206	0.783	-19.312	1.00	0.00



ATOM	26	CB	LEU	-2	4.623	-0.600	-18.662	1.00	0.00
ATOM	27	CG	LEU	-2	6.058	-0.261	-19.072	1.00	0.00
ATOM	28	CD1	LEU	-2	7.052	-0.986	-18.178	1.00	0.00
ATOM	29	CD2	LEU	-2	6.291	-0.617	-20.532	1.00	0.00
ATOM	32	H	LEU	-2	3.760	-0.979	-16.127	1.00	0.00
ATOM	33	HA	LEU	-2	4.499	1.344	-17.777	1.00	0.00
ATOM	34	1HB	LEU	-2	4.024	-0.668	-19.558	1.00	0.00
ATOM	35	2HB	LEU	-2	4.627	-1.566	-18.178	1.00	0.00
ATOM	36	HG	LEU	-2	6.217	0.802	-18.956	1.00	0.00
ATOM	37	1HD1	LEU	-2	6.616	-1.911	-17.832	1.00	0.00
ATOM	38	2HD1	LEU	-2	7.295	-0.362	-17.330	1.00	0.00
ATOM	39	3HD1	LEU	-2	7.951	-1.199	-18.738	1.00	0.00
ATOM	40	1HD2	LEU	-2	6.345	-1.691	-20.636	1.00	0.00
ATOM	41	2HD2	LEU	-2	7.220	-0.177	-20.866	1.00	0.00
ATOM	42	3HD2	LEU	-2	5.476	-0.239	-21.130	1.00	0.00
ATOM	43	N	GLY	-1	1.628	0.694	-17.141	1.00	0.00
ATOM	44	CA	GLY	-1	0.224	0.921	-17.420	1.00	0.00
ATOM	45	C	GLY	-1	-0.658	-0.195	-16.898	1.00	0.00
ATOM	46	O	GLY	-1	-0.459	-1.363	-17.235	1.00	0.00
ATOM	47	H	GLY	-1	1.931	0.579	-16.218	1.00	0.00
ATOM	48	1HA	GLY	-1	0.089	1.000	-18.488	1.00	0.00
ATOM	49	2HA	GLY	-1	-0.078	1.850	-16.959	1.00	0.00
ATOM	50	N	SER	0	-1.631	0.160	-16.076	1.00	0.00
ATOM	51	CA	SER	0	-2.544	-0.820	-15.510	1.00	0.00
ATOM	54	C	SER	0	-3.835	-0.884	-16.320	1.00	0.00
ATOM	55	O	SER	0	-4.471	0.138	-16.573	1.00	0.00
ATOM	52	CB	SER	0	-2.855	-0.473	-14.053	1.00	0.00
ATOM	53	OG	SER	0	-1.878	0.404	-13.516	1.00	0.00
ATOM	56	H	SER	0	-1.742	1.109	-15.839	1.00	0.00
ATOM	57	HA	SER	0	-2.059	-1.785	-15.547	1.00	0.00
ATOM	58	1HB	SER	0	-2.871	-1.378	-13.466	1.00	0.00
ATOM	59	2HB	SER	0	-3.820	0.008	-14.000	1.00	0.00
ATOM	60	HG	SER	0	-1.910	1.251	-13.984	1.00	0.00
ATOM	61	N	MET	1	-4.218	-2.089	-16.723	1.00	0.00
ATOM	62	CA	MET	1	-5.438	-2.280	-17.501	1.00	0.00
ATOM	67	C	MET	1	-6.662	-2.066	-16.619	1.00	0.00
ATOM	68	O	MET	1	-7.551	-1.276	-16.939	1.00	0.00
ATOM	63	CB	MET	1	-5.469	-3.684	-18.107	1.00	0.00
ATOM	64	CG	MET	1	-4.982	-3.738	-19.545	1.00	0.00
ATOM	65	SD	MET	1	-5.795	-2.523	-20.599	1.00	0.00
ATOM	66	CE	MET	1	-4.546	-2.278	-21.860	1.00	0.00
ATOM	69	H	MET	1	-3.672	-2.868	-16.491	1.00	0.00
ATOM	70	HA	MET	1	-5.446	-1.549	-18.296	1.00	0.00
ATOM	71	1HB	MET	1	-6.485	-4.052	-18.079	1.00	0.00
ATOM	72	2HB	MET	1	-4.845	-4.334	-17.513	1.00	0.00
ATOM	73	1HG	MET	1	-5.177	-4.725	-19.940	1.00	0.00
ATOM	74	2HG	MET	1	-3.919	-3.551	-19.558	1.00	0.00
ATOM	75	1HE	MET	1	-5.016	-2.240	-22.832	1.00	0.00
ATOM	76	2HE	MET	1	-3.842	-3.097	-21.834	1.00	0.00
ATOM	77	3HE	MET	1	-4.025	-1.351	-21.676	1.00	0.00
ATOM	78	N	ALA	2	-6.690	-2.766	-15.496	1.00	0.00
ATOM	79	CA	ALA	2	-7.786	-2.654	-14.551	1.00	0.00
ATOM	81	C	ALA	2	-7.250	-2.311	-13.170	1.00	0.00
ATOM	82	O	ALA	2	-6.420	-3.039	-12.621	1.00	0.00
ATOM	80	CB	ALA	2	-8.586	-3.946	-14.508	1.00	0.00
ATOM	83	H	ALA	2	-5.943	-3.371	-15.290	1.00	0.00
ATOM	84	HA	ALA	2	-8.438	-1.860	-14.884	1.00	0.00
ATOM	85	1HB	ALA	2	-8.405	-4.513	-15.410	1.00	0.00
ATOM	86	2HB	ALA	2	-9.639	-3.715	-14.434	1.00	0.00
ATOM	87	3HB	ALA	2	-8.284	-4.530	-13.651	1.00	0.00
ATOM	88	N	THR	3	-7.707	-1.198	-12.623	1.00	0.00
ATOM	89	CA	THR	3	-7.263	-0.760	-11.314	1.00	0.00
ATOM	93	C	THR	3	-8.288	-1.123	-10.239	1.00	0.00
ATOM	94	O	THR	3	-9.429	-0.659	-10.270	1.00	0.00
ATOM	90	CB	THR	3	-6.958	0.761	-11.304	1.00	0.00
ATOM	91	OG1	THR	3	-8.173	1.512	-11.105	1.00	0.00
ATOM	92	CG2	THR	3	-6.331	1.201	-12.615	1.00	0.00
ATOM	95	H	THR	3	-8.357	-0.651	-13.112	1.00	0.00
ATOM	96	HA	THR	3	-6.341	-1.279	-11.095	1.00	0.00
ATOM	97	HB	THR	3	-6.284	0.973	-10.501	1.00	0.00
ATOM	98	HG1	THR	3	-8.873	0.921	-10.788	1.00	0.00
ATOM	99	1HG2	THR	3	-6.798	0.677	-13.436	1.00	0.00
ATOM	100	2HG2	THR	3	-5.275	0.972	-12.595	1.00	0.00



ATOM	101	3HG2	THR	3	-6.467	2.265	-12.742	1.00	0.00
ATOM	102	N	PRO	4	-7.890	-1.976	-9.279	1.00	0.00
ATOM	103	CA	PRO	4	-8.769	-2.418	-8.192	1.00	0.00
ATOM	107	C	PRO	4	-9.160	-1.268	-7.272	1.00	0.00
ATOM	108	O	PRO	4	-8.300	-0.535	-6.776	1.00	0.00
ATOM	104	CB	PRO	4	-7.930	-3.451	-7.430	1.00	0.00
ATOM	105	CG	PRO	4	-6.811	-3.805	-8.350	1.00	0.00
ATOM	106	CD	PRO	4	-6.556	-2.583	-9.180	1.00	0.00
ATOM	109	HA	PRO	4	-9.663	-2.887	-8.575	1.00	0.00
ATOM	110	1HB	PRO	4	-8.539	-4.313	-7.204	1.00	0.00
ATOM	111	2HB	PRO	4	-7.563	-3.013	-6.513	1.00	0.00
ATOM	112	1HG	PRO	4	-7.103	-4.632	-8.981	1.00	0.00
ATOM	113	2HG	PRO	4	-5.931	-4.060	-7.778	1.00	0.00
ATOM	114	1HD	PRO	4	-6.183	-2.856	-10.156	1.00	0.00
ATOM	115	2HD	PRO	4	-5.864	-1.921	-8.680	1.00	0.00
ATOM	116	N	ALA	5	-10.456	-1.111	-7.059	1.00	0.00
ATOM	117	CA	ALA	5	-10.969	-0.047	-6.209	1.00	0.00
ATOM	119	C	ALA	5	-10.942	-0.445	-4.738	1.00	0.00
ATOM	120	O	ALA	5	-11.309	-1.565	-4.378	1.00	0.00
ATOM	118	CB	ALA	5	-12.380	0.328	-6.630	1.00	0.00
ATOM	121	H	ALA	5	-11.088	-1.728	-7.489	1.00	0.00
ATOM	122	HA	ALA	5	-10.338	0.819	-6.348	1.00	0.00
ATOM	123	1HB	ALA	5	-12.909	-0.559	-6.949	1.00	0.00
ATOM	124	2HB	ALA	5	-12.338	1.033	-7.447	1.00	0.00
ATOM	125	3HB	ALA	5	-12.899	0.775	-5.795	1.00	0.00
ATOM	126	N	SER	6	-10.509	0.483	-3.899	1.00	0.00
ATOM	127	CA	SER	6	-10.432	0.255	-2.467	1.00	0.00
ATOM	130	C	SER	6	-10.573	1.579	-1.726	1.00	0.00
ATOM	131	O	SER	6	-10.008	2.591	-2.141	1.00	0.00
ATOM	128	CB	SER	6	-9.104	-0.414	-2.098	1.00	0.00
ATOM	129	OG	SER	6	-9.317	-1.707	-1.556	1.00	0.00
ATOM	132	H	SER	6	-10.236	1.355	-4.252	1.00	0.00
ATOM	133	HA	SER	6	-11.248	-0.393	-2.186	1.00	0.00
ATOM	134	1HB	SER	6	-8.590	0.190	-1.366	1.00	0.00
ATOM	135	2HB	SER	6	-8.493	-0.506	-2.983	1.00	0.00
ATOM	136	HG	SER	6	-8.881	-2.366	-2.117	1.00	0.00
ATOM	137	N	ALA	7	-11.331	1.570	-0.641	1.00	0.00
ATOM	138	CA	ALA	7	-11.543	2.770	0.149	1.00	0.00
ATOM	140	C	ALA	7	-10.431	2.933	1.178	1.00	0.00
ATOM	141	O	ALA	7	-10.146	2.003	1.938	1.00	0.00
ATOM	139	CB	ALA	7	-12.902	2.722	0.832	1.00	0.00
ATOM	142	H	ALA	7	-11.758	0.733	-0.363	1.00	0.00
ATOM	143	HA	ALA	7	-11.529	3.619	-0.521	1.00	0.00
ATOM	144	1HB	ALA	7	-13.283	1.712	0.803	1.00	0.00
ATOM	145	2HB	ALA	7	-13.587	3.379	0.317	1.00	0.00
ATOM	146	3HB	ALA	7	-12.801	3.040	1.859	1.00	0.00
ATOM	147	N	PRO	8	-9.783	4.110	1.210	1.00	0.00
ATOM	148	CA	PRO	8	-8.681	4.409	2.140	1.00	0.00
ATOM	152	C	PRO	8	-9.157	4.616	3.581	1.00	0.00
ATOM	153	O	PRO	8	-8.677	5.503	4.287	1.00	0.00
ATOM	149	CB	PRO	8	-8.078	5.713	1.590	1.00	0.00
ATOM	150	CG	PRO	8	-8.723	5.931	0.260	1.00	0.00
ATOM	151	CD	PRO	8	-10.057	5.250	0.331	1.00	0.00
ATOM	154	HA	PRO	8	-7.931	3.631	2.123	1.00	0.00
ATOM	155	1HB	PRO	8	-7.009	5.603	1.493	1.00	0.00
ATOM	156	2HB	PRO	8	-8.297	6.524	2.269	1.00	0.00
ATOM	157	1HG	PRO	8	-8.118	5.489	-0.518	1.00	0.00
ATOM	158	2HG	PRO	8	-8.851	6.988	0.082	1.00	0.00
ATOM	159	1HD	PRO	8	-10.367	4.918	-0.648	1.00	0.00
ATOM	160	2HD	PRO	8	-10.797	5.908	0.765	1.00	0.00
ATOM	161	N	ASP	9	-10.100	3.788	4.008	1.00	0.00
ATOM	162	CA	ASP	9	-10.645	3.862	5.357	1.00	0.00
ATOM	167	C	ASP	9	-9.853	2.963	6.301	1.00	0.00
ATOM	168	O	ASP	9	-8.695	2.629	6.033	1.00	0.00
ATOM	163	CB	ASP	9	-12.121	3.446	5.356	1.00	0.00
ATOM	164	CG	ASP	9	-13.017	4.443	6.066	1.00	0.00
ATOM	165	OD1	ASP	9	-12.618	4.964	7.125	1.00	0.00
ATOM	166	OD2	ASP	9	-14.130	4.711	5.562	1.00	0.00
ATOM	169	H	ASP	9	-10.436	3.101	3.395	1.00	0.00
ATOM	170	HA	ASP	9	-10.566	4.885	5.696	1.00	0.00
ATOM	171	1HB	ASP	9	-12.216	2.490	5.850	1.00	0.00
ATOM	172	2HB	ASP	9	-12.460	3.352	4.336	1.00	0.00
ATOM	173	N	THR	10	-10.488	2.558	7.395	1.00	0.00



ATOM	174	CA	THR	10	-9.870	1.690	8.383	1.00	0.00
ATOM	178	C	THR	10	-9.408	0.381	7.756	1.00	0.00
ATOM	179	O	THR	10	-8.371	-0.159	8.126	1.00	0.00
ATOM	175	CB	THR	10	-10.857	1.380	9.522	1.00	0.00
ATOM	176	OG1	THR	10	-12.143	1.926	9.202	1.00	0.00
ATOM	177	CG2	THR	10	-10.365	1.955	10.842	1.00	0.00
ATOM	180	H	THR	10	-11.409	2.851	7.544	1.00	0.00
ATOM	181	HA	THR	10	-9.018	2.205	8.801	1.00	0.00
ATOM	182	HB	THR	10	-10.942	0.307	9.622	1.00	0.00
ATOM	183	HG1	THR	10	-12.827	1.240	9.327	1.00	0.00
ATOM	184	1HG2	THR	10	-9.430	1.488	11.113	1.00	0.00
ATOM	185	2HG2	THR	10	-11.098	1.766	11.611	1.00	0.00
ATOM	186	3HG2	THR	10	-10.217	3.019	10.737	1.00	0.00
ATOM	187	N	ARG	11	-10.182	-0.119	6.797	1.00	0.00
ATOM	188	CA	ARG	11	-9.852	-1.364	6.111	1.00	0.00
ATOM	196	C	ARG	11	-8.526	-1.242	5.373	1.00	0.00
ATOM	197	O	ARG	11	-7.699	-2.149	5.420	1.00	0.00
ATOM	189	CB	ARG	11	-10.965	-1.750	5.131	1.00	0.00
ATOM	190	CG	ARG	11	-11.360	-3.218	5.196	1.00	0.00
ATOM	191	CD	ARG	11	-10.416	-4.091	4.381	1.00	0.00
ATOM	192	NE	ARG	11	-10.682	-4.001	2.942	1.00	0.00
ATOM	193	CZ	ARG	11	-10.477	-5.002	2.081	1.00	0.00
ATOM	194	NH1	ARG	11	-10.048	-6.179	2.518	1.00	0.00
ATOM	195	NH2	ARG	11	-10.713	-4.825	0.784	1.00	0.00
ATOM	198	H	ARG	11	-10.999	0.365	6.545	1.00	0.00
ATOM	199	HA	ARG	11	-9.753	-2.137	6.859	1.00	0.00
ATOM	200	1HB	ARG	11	-10.632	-1.533	4.126	1.00	0.00
ATOM	201	2HB	ARG	11	-11.840	-1.155	5.347	1.00	0.00
ATOM	202	1HG	ARG	11	-12.362	-3.327	4.809	1.00	0.00
ATOM	203	2HG	ARG	11	-11.333	-3.542	6.226	1.00	0.00
ATOM	204	1HD	ARG	11	-10.534	-5.117	4.696	1.00	0.00
ATOM	205	2HD	ARG	11	-9.402	-3.772	4.569	1.00	0.00
ATOM	206	HE	ARG	11	-11.031	-3.146	2.600	1.00	0.00
ATOM	207	1HH1	ARG	11	-9.874	-6.321	3.491	1.00	0.00
ATOM	208	2HH1	ARG	11	-9.912	-6.946	1.871	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.049	-3.944	0.448	1.00	0.00
ATOM	210	2HH2	ARG	11	-10.547	-5.576	0.129	1.00	0.00
ATOM	211	N	ALA	12	-8.319	-0.118	4.707	1.00	0.00
ATOM	212	CA	ALA	12	-7.082	0.105	3.979	1.00	0.00
ATOM	214	C	ALA	12	-5.937	0.373	4.945	1.00	0.00
ATOM	215	O	ALA	12	-4.799	-0.019	4.699	1.00	0.00
ATOM	213	CB	ALA	12	-7.232	1.257	3.001	1.00	0.00
ATOM	216	H	ALA	12	-9.006	0.581	4.713	1.00	0.00
ATOM	217	HA	ALA	12	-6.861	-0.791	3.415	1.00	0.00
ATOM	218	1HB	ALA	12	-6.505	2.022	3.231	1.00	0.00
ATOM	219	2HB	ALA	12	-8.226	1.669	3.082	1.00	0.00
ATOM	220	3HB	ALA	12	-7.070	0.900	1.995	1.00	0.00
ATOM	221	N	LEU	13	-6.241	1.049	6.044	1.00	0.00
ATOM	222	CA	LEU	13	-5.220	1.368	7.031	1.00	0.00
ATOM	227	C	LEU	13	-4.800	0.129	7.823	1.00	0.00
ATOM	228	O	LEU	13	-3.611	-0.080	8.061	1.00	0.00
ATOM	223	CB	LEU	13	-5.704	2.477	7.963	1.00	0.00
ATOM	224	CG	LEU	13	-4.814	2.745	9.171	1.00	0.00
ATOM	225	CD1	LEU	13	-3.720	3.739	8.819	1.00	0.00
ATOM	226	CD2	LEU	13	-5.656	3.253	10.326	1.00	0.00
ATOM	229	H	LEU	13	-7.172	1.348	6.192	1.00	0.00
ATOM	230	HA	LEU	13	-4.357	1.729	6.490	1.00	0.00
ATOM	231	1HB	LEU	13	-6.689	2.219	8.322	1.00	0.00
ATOM	232	2HB	LEU	13	-5.772	3.390	7.387	1.00	0.00
ATOM	233	HG	LEU	13	-4.343	1.821	9.477	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.365	3.543	7.818	1.00	0.00
ATOM	235	2HD1	LEU	13	-2.903	3.638	9.518	1.00	0.00
ATOM	236	3HD1	LEU	13	-4.116	4.742	8.870	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.375	2.498	10.607	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.174	4.151	10.024	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.015	3.472	11.167	1.00	0.00
ATOM	240	N	VAL	14	-5.761	-0.704	8.218	1.00	0.00
ATOM	241	CA	VAL	14	-5.441	-1.914	8.966	1.00	0.00
ATOM	245	C	VAL	14	-4.654	-2.880	8.079	1.00	0.00
ATOM	246	O	VAL	14	-3.720	-3.542	8.535	1.00	0.00
ATOM	242	CB	VAL	14	-6.703	-2.613	9.550	1.00	0.00
ATOM	243	CG1	VAL	14	-7.562	-3.243	8.464	1.00	0.00
ATOM	244	CG2	VAL	14	-6.300	-3.659	10.577	1.00	0.00



ATOM	247	H	VAL	14	-6.702	-0.505	7.997	1.00	0.00
ATOM	248	HA	VAL	14	-4.805	-1.621	9.792	1.00	0.00
ATOM	249	HB	VAL	14	-7.302	-1.868	10.054	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.919	-4.206	8.800	1.00	0.00
ATOM	251	2HG1	VAL	14	-6.972	-3.372	7.567	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.404	-2.601	8.252	1.00	0.00
ATOM	253	1HG2	VAL	14	-6.878	-4.558	10.421	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.486	-3.279	11.570	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.249	-3.883	10.468	1.00	0.00
ATOM	256	N	ALA	15	-5.020	-2.931	6.799	1.00	0.00
ATOM	257	CA	ALA	15	-4.334	-3.792	5.845	1.00	0.00
ATOM	259	C	ALA	15	-2.946	-3.240	5.527	1.00	0.00
ATOM	260	O	ALA	15	-2.069	-3.969	5.072	1.00	0.00
ATOM	258	CB	ALA	15	-5.154	-3.938	4.573	1.00	0.00
ATOM	261	H	ALA	15	-5.763	-2.366	6.489	1.00	0.00
ATOM	262	HA	ALA	15	-4.228	-4.769	6.293	1.00	0.00
ATOM	263	1HB	ALA	15	-5.263	-4.986	4.333	1.00	0.00
ATOM	264	2HB	ALA	15	-4.652	-3.433	3.761	1.00	0.00
ATOM	265	3HB	ALA	15	-6.130	-3.499	4.721	1.00	0.00
ATOM	266	N	ASP	16	-2.767	-1.950	5.775	1.00	0.00
ATOM	267	CA	ASP	16	-1.495	-1.277	5.528	1.00	0.00
ATOM	272	C	ASP	16	-0.490	-1.587	6.625	1.00	0.00
ATOM	273	O	ASP	16	0.505	-2.268	6.389	1.00	0.00
ATOM	268	CB	ASP	16	-1.723	0.235	5.442	1.00	0.00
ATOM	269	CG	ASP	16	-0.481	1.075	5.721	1.00	0.00
ATOM	270	OD1	ASP	16	0.563	0.841	5.086	1.00	0.00
ATOM	271	OD2	ASP	16	-0.576	2.007	6.554	1.00	0.00
ATOM	274	H	ASP	16	-3.514	-1.427	6.135	1.00	0.00
ATOM	275	HA	ASP	16	-1.106	-1.628	4.585	1.00	0.00
ATOM	276	1HB	ASP	16	-2.486	0.513	6.156	1.00	0.00
ATOM	277	2HB	ASP	16	-2.071	0.478	4.450	1.00	0.00
ATOM	278	N	PHE	17	-0.755	-1.071	7.819	1.00	0.00
ATOM	279	CA	PHE	17	0.128	-1.263	8.959	1.00	0.00
ATOM	287	C	PHE	17	0.452	-2.732	9.195	1.00	0.00
ATOM	288	O	PHE	17	1.618	-3.103	9.336	1.00	0.00
ATOM	280	CB	PHE	17	-0.489	-0.661	10.218	1.00	0.00
ATOM	281	CG	PHE	17	0.534	-0.287	11.250	1.00	0.00
ATOM	282	CD1	PHE	17	1.601	0.532	10.919	1.00	0.00
ATOM	283	CD2	PHE	17	0.433	-0.760	12.547	1.00	0.00
ATOM	284	CE1	PHE	17	2.547	0.874	11.864	1.00	0.00
ATOM	285	CE2	PHE	17	1.375	-0.421	13.496	1.00	0.00
ATOM	286	CZ	PHE	17	2.435	0.396	13.155	1.00	0.00
ATOM	289	H	PHE	17	-1.564	-0.527	7.928	1.00	0.00
ATOM	290	HA	PHE	17	1.049	-0.742	8.747	1.00	0.00
ATOM	291	1HB	PHE	17	-1.163	-1.379	10.661	1.00	0.00
ATOM	292	2HB	PHE	17	-1.039	0.229	9.954	1.00	0.00
ATOM	293	HD1	PHE	17	1.689	0.907	9.910	1.00	0.00
ATOM	294	HD2	PHE	17	-0.395	-1.400	12.813	1.00	0.00
ATOM	295	HE1	PHE	17	3.374	1.513	11.596	1.00	0.00
ATOM	296	HE2	PHE	17	1.284	-0.795	14.505	1.00	0.00
ATOM	297	HZ	PHE	17	3.173	0.662	13.896	1.00	0.00
ATOM	298	N	VAL	18	-0.573	-3.566	9.244	1.00	0.00
ATOM	299	CA	VAL	18	-0.368	-4.986	9.474	1.00	0.00
ATOM	303	C	VAL	18	0.153	-5.672	8.216	1.00	0.00
ATOM	304	O	VAL	18	1.021	-6.538	8.291	1.00	0.00
ATOM	300	CB	VAL	18	-1.664	-5.675	9.952	1.00	0.00
ATOM	301	CG1	VAL	18	-1.384	-7.100	10.398	1.00	0.00
ATOM	302	CG2	VAL	18	-2.305	-4.880	11.082	1.00	0.00
ATOM	305	H	VAL	18	-1.486	-3.220	9.128	1.00	0.00
ATOM	306	HA	VAL	18	0.379	-5.088	10.252	1.00	0.00
ATOM	307	HB	VAL	18	-2.358	-5.708	9.125	1.00	0.00
ATOM	308	1HG1	VAL	18	-1.453	-7.161	11.473	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.390	-7.387	10.084	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.108	-7.766	9.951	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.871	-4.058	10.668	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.535	-4.494	11.733	1.00	0.00
ATOM	313	3HG2	VAL	18	-2.965	-5.524	11.646	1.00	0.00
ATOM	314	N	GLY	19	-0.365	-5.274	7.064	1.00	0.00
ATOM	315	CA	GLY	19	0.074	-5.864	5.812	1.00	0.00
ATOM	316	C	GLY	19	1.547	-5.642	5.552	1.00	0.00
ATOM	317	O	GLY	19	2.286	-6.590	5.305	1.00	0.00
ATOM	318	H	GLY	19	-1.044	-4.567	7.058	1.00	0.00
ATOM	319	1HA	GLY	19	-0.494	-5.427	5.003	1.00	0.00



ATOM	320	2HA	GLY	19	-0.119	-6.925	5.841	1.00	0.00
ATOM	321	N	TYR	20	1.966	-4.386	5.602	1.00	0.00
ATOM	322	CA	TYR	20	3.354	-4.014	5.369	1.00	0.00
ATOM	331	C	TYR	20	4.275	-4.669	6.392	1.00	0.00
ATOM	332	O	TYR	20	5.321	-5.206	6.036	1.00	0.00
ATOM	323	CB	TYR	20	3.505	-2.490	5.433	1.00	0.00
ATOM	324	CG	TYR	20	4.917	-2.000	5.209	1.00	0.00
ATOM	325	CD1	TYR	20	5.493	-2.035	3.945	1.00	0.00
ATOM	326	CD2	TYR	20	5.674	-1.501	6.260	1.00	0.00
ATOM	327	CE1	TYR	20	6.782	-1.587	3.736	1.00	0.00
ATOM	328	CE2	TYR	20	6.964	-1.051	6.059	1.00	0.00
ATOM	329	CZ	TYR	20	7.512	-1.096	4.795	1.00	0.00
ATOM	330	OH	TYR	20	8.796	-0.652	4.592	1.00	0.00
ATOM	333	H	TYR	20	1.313	-3.677	5.794	1.00	0.00
ATOM	334	HA	TYR	20	3.623	-4.351	4.378	1.00	0.00
ATOM	335	1HB	TYR	20	3.185	-2.146	6.406	1.00	0.00
ATOM	336	2HB	TYR	20	2.878	-2.043	4.677	1.00	0.00
ATOM	337	HD1	TYR	20	4.918	-2.420	3.116	1.00	0.00
ATOM	338	HD2	TYR	20	5.242	-1.469	7.249	1.00	0.00
ATOM	339	HE1	TYR	20	7.212	-1.621	2.746	1.00	0.00
ATOM	340	HE2	TYR	20	7.537	-0.667	6.889	1.00	0.00
ATOM	341	HH	TYR	20	8.883	-0.323	3.683	1.00	0.00
ATOM	342	N	LYS	21	3.877	-4.618	7.659	1.00	0.00
ATOM	343	CA	LYS	21	4.664	-5.196	8.742	1.00	0.00
ATOM	349	C	LYS	21	4.841	-6.697	8.554	1.00	0.00
ATOM	350	O	LYS	21	5.949	-7.220	8.674	1.00	0.00
ATOM	344	CB	LYS	21	3.996	-4.918	10.091	1.00	0.00
ATOM	345	CG	LYS	21	4.853	-4.096	11.040	1.00	0.00
ATOM	346	CD	LYS	21	5.726	-4.983	11.915	1.00	0.00
ATOM	347	CE	LYS	21	6.173	-4.257	13.172	1.00	0.00
ATOM	348	NZ	LYS	21	7.557	-3.726	13.045	1.00	0.00
ATOM	351	H	LYS	21	3.030	-4.175	7.873	1.00	0.00
ATOM	352	HA	LYS	21	5.636	-4.726	8.730	1.00	0.00
ATOM	353	1HB	LYS	21	3.770	-5.860	10.569	1.00	0.00
ATOM	354	2HB	LYS	21	3.075	-4.384	9.920	1.00	0.00
ATOM	355	1HG	LYS	21	4.206	-3.504	11.671	1.00	0.00
ATOM	356	2HG	LYS	21	5.489	-3.444	10.460	1.00	0.00
ATOM	357	1HD	LYS	21	6.599	-5.279	11.352	1.00	0.00
ATOM	358	2HD	LYS	21	5.164	-5.860	12.201	1.00	0.00
ATOM	359	1HE	LYS	21	6.135	-4.947	14.002	1.00	0.00
ATOM	360	2HE	LYS	21	5.498	-3.435	13.356	1.00	0.00
ATOM	361	1HZ	LYS	21	7.554	-2.830	12.510	1.00	0.00
ATOM	362	2HZ	LYS	21	8.163	-4.409	12.555	1.00	0.00
ATOM	363	3HZ	LYS	21	7.959	-3.543	13.998	1.00	0.00
ATOM	364	N	LEU	22	3.744	-7.382	8.265	1.00	0.00
ATOM	365	CA	LEU	22	3.774	-8.823	8.066	1.00	0.00
ATOM	370	C	LEU	22	4.537	-9.170	6.798	1.00	0.00
ATOM	371	O	LEU	22	5.394	-10.043	6.804	1.00	0.00
ATOM	366	CB	LEU	22	2.353	-9.385	7.979	1.00	0.00
ATOM	367	CG	LEU	22	1.736	-9.847	9.303	1.00	0.00
ATOM	368	CD1	LEU	22	1.792	-8.741	10.344	1.00	0.00
ATOM	369	CD2	LEU	22	0.303	-10.295	9.076	1.00	0.00
ATOM	372	H	LEU	22	2.886	-6.904	8.188	1.00	0.00
ATOM	373	HA	LEU	22	4.276	-9.266	8.913	1.00	0.00
ATOM	374	1HB	LEU	22	2.367	-10.229	7.305	1.00	0.00
ATOM	375	2HB	LEU	22	1.712	-8.622	7.559	1.00	0.00
ATOM	376	HG	LEU	22	2.293	-10.690	9.685	1.00	0.00
ATOM	377	1HD1	LEU	22	1.637	-9.163	11.326	1.00	0.00
ATOM	378	2HD1	LEU	22	1.020	-8.013	10.139	1.00	0.00
ATOM	379	3HD1	LEU	22	2.758	-8.260	10.308	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.030	-9.958	8.104	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.331	-9.873	9.840	1.00	0.00
ATOM	382	3HD2	LEU	22	0.252	-11.373	9.120	1.00	0.00
ATOM	383	N	ARG	23	4.213	-8.477	5.712	1.00	0.00
ATOM	384	CA	ARG	23	4.855	-8.705	4.420	1.00	0.00
ATOM	392	C	ARG	23	6.365	-8.494	4.499	1.00	0.00
ATOM	393	O	ARG	23	7.128	-9.131	3.774	1.00	0.00
ATOM	385	CB	ARG	23	4.228	-7.783	3.362	1.00	0.00
ATOM	386	CG	ARG	23	4.793	-7.951	1.967	1.00	0.00
ATOM	387	CD	ARG	23	4.165	-6.957	0.999	1.00	0.00
ATOM	388	NE	ARG	23	4.966	-5.742	0.856	1.00	0.00
ATOM	389	CZ	ARG	23	5.972	-5.591	-0.008	1.00	0.00
ATOM	390	NH1	ARG	23	6.372	-6.600	-0.768	1.00	0.00



ATOM	391	NH2	ARG	23	6.586	-4.420	-0.102	1.00	0.00
ATOM	394	H	ARG	23	3.513	-7.789	5.781	1.00	0.00
ATOM	395	HA	ARG	23	4.666	-9.730	4.140	1.00	0.00
ATOM	396	1HB	ARG	23	4.373	-6.758	3.660	1.00	0.00
ATOM	397	2HB	ARG	23	3.168	-7.981	3.317	1.00	0.00
ATOM	398	1HG	ARG	23	4.589	-8.955	1.622	1.00	0.00
ATOM	399	2HG	ARG	23	5.859	-7.786	1.997	1.00	0.00
ATOM	400	1HD	ARG	23	3.180	-6.679	1.368	1.00	0.00
ATOM	401	2HD	ARG	23	4.067	-7.428	0.033	1.00	0.00
ATOM	402	HE	ARG	23	4.719	-4.973	1.421	1.00	0.00
ATOM	403	1HH1	ARG	23	5.927	-7.490	-0.706	1.00	0.00
ATOM	404	2HH1	ARG	23	7.128	-6.462	-1.423	1.00	0.00
ATOM	405	1HH2	ARG	23	6.295	-3.648	0.469	1.00	0.00
ATOM	406	2HH2	ARG	23	7.339	-4.302	-0.760	1.00	0.00
ATOM	407	N	GLN	24	6.793	-7.597	5.377	1.00	0.00
ATOM	408	CA	GLN	24	8.213	-7.309	5.536	1.00	0.00
ATOM	414	C	GLN	24	8.896	-8.256	6.524	1.00	0.00
ATOM	415	O	GLN	24	10.125	-8.273	6.614	1.00	0.00
ATOM	409	CB	GLN	24	8.412	-5.863	5.982	1.00	0.00
ATOM	410	CG	GLN	24	8.358	-4.871	4.833	1.00	0.00
ATOM	411	CD	GLN	24	9.733	-4.497	4.320	1.00	0.00
ATOM	412	OE1	GLN	24	10.398	-5.290	3.654	1.00	0.00
ATOM	413	NE2	GLN	24	10.162	-3.281	4.609	1.00	0.00
ATOM	416	H	GLN	24	6.139	-7.113	5.930	1.00	0.00
ATOM	417	HA	GLN	24	8.677	-7.432	4.569	1.00	0.00
ATOM	418	1HB	GLN	24	9.375	-5.773	6.462	1.00	0.00
ATOM	419	2HB	GLN	24	7.639	-5.605	6.692	1.00	0.00
ATOM	420	1HG	GLN	24	7.859	-3.977	5.171	1.00	0.00
ATOM	421	2HG	GLN	24	7.795	-5.310	4.023	1.00	0.00
ATOM	422	1HE2	GLN	24	9.573	-2.690	5.125	1.00	0.00
ATOM	423	2HE2	GLN	24	11.062	-3.019	4.306	1.00	0.00
ATOM	424	N	LYS	25	8.115	-9.028	7.281	1.00	0.00
ATOM	425	CA	LYS	25	8.694	-9.940	8.267	1.00	0.00
ATOM	431	C	LYS	25	7.759	-11.105	8.607	1.00	0.00
ATOM	432	O	LYS	25	7.328	-11.254	9.752	1.00	0.00
ATOM	426	CB	LYS	25	9.031	-9.166	9.544	1.00	0.00
ATOM	427	CG	LYS	25	10.343	-9.585	10.185	1.00	0.00
ATOM	428	CD	LYS	25	10.614	-8.806	11.462	1.00	0.00
ATOM	429	CE	LYS	25	11.400	-9.635	12.468	1.00	0.00
ATOM	430	NZ	LYS	25	12.834	-9.747	12.094	1.00	0.00
ATOM	433	H	LYS	25	7.139	-8.973	7.187	1.00	0.00
ATOM	434	HA	LYS	25	9.607	-10.337	7.853	1.00	0.00
ATOM	435	1HB	LYS	25	8.239	-9.319	10.264	1.00	0.00
ATOM	436	2HB	LYS	25	9.091	-8.114	9.309	1.00	0.00
ATOM	437	1HG	LYS	25	11.146	-9.404	9.487	1.00	0.00
ATOM	438	2HG	LYS	25	10.298	-10.638	10.421	1.00	0.00
ATOM	439	1HD	LYS	25	9.671	-8.519	11.904	1.00	0.00
ATOM	440	2HD	LYS	25	11.183	-7.921	11.218	1.00	0.00
ATOM	441	1HE	LYS	25	10.970	-10.624	12.515	1.00	0.00
ATOM	442	2HE	LYS	25	11.329	-9.165	13.437	1.00	0.00
ATOM	443	1HZ	LYS	25	12.943	-10.392	11.278	1.00	0.00
ATOM	444	2HZ	LYS	25	13.388	-10.122	12.894	1.00	0.00
ATOM	445	3HZ	LYS	25	13.211	-8.811	11.834	1.00	0.00
ATOM	446	N	GLY	26	7.456	-11.938	7.620	1.00	0.00
ATOM	447	CA	GLY	26	6.587	-13.078	7.862	1.00	0.00
ATOM	448	C	GLY	26	5.741	-13.432	6.662	1.00	0.00
ATOM	449	O	GLY	26	5.967	-14.443	5.999	1.00	0.00
ATOM	450	H	GLY	26	7.828	-11.783	6.727	1.00	0.00
ATOM	451	1HA	GLY	26	5.935	-12.848	8.690	1.00	0.00
ATOM	452	2HA	GLY	26	7.190	-13.932	8.124	1.00	0.00
ATOM	453	N	TYR	27	4.772	-12.585	6.377	1.00	0.00
ATOM	454	CA	TYR	27	3.874	-12.775	5.250	1.00	0.00
ATOM	463	C	TYR	27	4.529	-12.273	3.965	1.00	0.00
ATOM	464	O	TYR	27	3.990	-11.413	3.270	1.00	0.00
ATOM	455	CB	TYR	27	2.559	-12.030	5.509	1.00	0.00
ATOM	456	CG	TYR	27	1.361	-12.602	4.782	1.00	0.00
ATOM	457	CD1	TYR	27	1.210	-13.972	4.612	1.00	0.00
ATOM	458	CD2	TYR	27	0.376	-11.766	4.270	1.00	0.00
ATOM	459	CE1	TYR	27	0.113	-14.493	3.954	1.00	0.00
ATOM	460	CE2	TYR	27	-0.725	-12.279	3.614	1.00	0.00
ATOM	461	CZ	TYR	27	-0.853	-13.642	3.456	1.00	0.00
ATOM	462	OH	TYR	27	-1.950	-14.158	2.804	1.00	0.00
ATOM	465	H	TYR	27	4.664	-11.789	6.941	1.00	0.00



ATOM	466	HA	TYR	27	3.672	-13.831	5.155	1.00	0.00
ATOM	467	1HB	TYR	27	2.672	-11.000	5.205	1.00	0.00
ATOM	468	2HB	TYR	27	2.343	-12.062	6.566	1.00	0.00
ATOM	469	HD1	TYR	27	0.478	-10.698	4.394	1.00	0.00
ATOM	470	HD2	TYR	27	1.966	-14.636	5.004	1.00	0.00
ATOM	471	HE1	TYR	27	-1.480	-11.613	3.223	1.00	0.00
ATOM	472	HE2	TYR	27	0.014	-15.562	3.832	1.00	0.00
ATOM	473	HH	TYR	27	-1.968	-15.116	2.919	1.00	0.00
ATOM	474	N	VAL	28	5.700	-12.816	3.660	1.00	0.00
ATOM	475	CA	VAL	28	6.438	-12.421	2.469	1.00	0.00
ATOM	479	C	VAL	28	5.843	-13.085	1.238	1.00	0.00
ATOM	480	O	VAL	28	5.835	-12.513	0.147	1.00	0.00
ATOM	476	CB	VAL	28	7.933	-12.792	2.579	1.00	0.00
ATOM	477	CG1	VAL	28	8.745	-12.066	1.518	1.00	0.00
ATOM	478	CG2	VAL	28	8.467	-12.476	3.970	1.00	0.00
ATOM	481	H	VAL	28	6.080	-13.497	4.259	1.00	0.00
ATOM	482	HA	VAL	28	6.356	-11.351	2.364	1.00	0.00
ATOM	483	HB	VAL	28	8.033	-13.854	2.412	1.00	0.00
ATOM	484	1HG1	VAL	28	8.781	-11.013	1.749	1.00	0.00
ATOM	485	2HG1	VAL	28	8.281	-12.207	0.552	1.00	0.00
ATOM	486	3HG1	VAL	28	9.748	-12.465	1.497	1.00	0.00
ATOM	487	1HG2	VAL	28	7.672	-12.583	4.694	1.00	0.00
ATOM	488	2HG2	VAL	28	8.838	-11.462	3.992	1.00	0.00
ATOM	489	3HG2	VAL	28	9.269	-13.158	4.212	1.00	0.00
ATOM	490	N	CYS	29	5.324	-14.289	1.425	1.00	0.00
ATOM	491	CA	CYS	29	4.703	-15.030	0.340	1.00	0.00
ATOM	494	C	CYS	29	3.437	-14.313	-0.116	1.00	0.00
ATOM	495	O	CYS	29	3.117	-14.278	-1.304	1.00	0.00
ATOM	492	CB	CYS	29	4.385	-16.452	0.794	1.00	0.00
ATOM	493	SG	CYS	29	5.530	-17.084	2.045	1.00	0.00
ATOM	496	H	CYS	29	5.349	-14.684	2.320	1.00	0.00
ATOM	497	HA	CYS	29	5.402	-15.067	-0.484	1.00	0.00
ATOM	498	1HB	CYS	29	4.427	-17.113	-0.058	1.00	0.00
ATOM	499	2HB	CYS	29	3.390	-16.476	1.216	1.00	0.00
ATOM	500	HG	CYS	29	5.327	-18.397	2.157	1.00	0.00
ATOM	501	N	GLY	30	2.740	-13.711	0.840	1.00	0.00
ATOM	502	CA	GLY	30	1.534	-12.972	0.531	1.00	0.00
ATOM	503	C	GLY	30	1.821	-11.504	0.309	1.00	0.00
ATOM	504	O	GLY	30	1.194	-10.634	0.915	1.00	0.00
ATOM	505	H	GLY	30	3.061	-13.753	1.762	1.00	0.00
ATOM	506	1HA	GLY	30	0.843	-13.072	1.349	1.00	0.00
ATOM	507	2HA	GLY	30	1.086	-13.383	-0.362	1.00	0.00
ATOM	508	N	ALA	31	2.782	-11.234	-0.559	1.00	0.00
ATOM	509	CA	ALA	31	3.175	-9.870	-0.874	1.00	0.00
ATOM	511	C	ALA	31	2.082	-9.165	-1.665	1.00	0.00
ATOM	512	O	ALA	31	1.752	-9.569	-2.782	1.00	0.00
ATOM	510	CB	ALA	31	4.486	-9.860	-1.645	1.00	0.00
ATOM	513	H	ALA	31	3.241	-11.979	-0.999	1.00	0.00
ATOM	514	HA	ALA	31	3.327	-9.343	0.058	1.00	0.00
ATOM	515	1HB	ALA	31	4.295	-9.617	-2.680	1.00	0.00
ATOM	516	2HB	ALA	31	4.948	-10.834	-1.582	1.00	0.00
ATOM	517	3HB	ALA	31	5.149	-9.120	-1.220	1.00	0.00
ATOM	518	N	GLY	32	1.510	-8.121	-1.081	1.00	0.00
ATOM	519	CA	GLY	32	0.448	-7.402	-1.756	1.00	0.00
ATOM	520	C	GLY	32	-0.179	-6.306	-0.909	1.00	0.00
ATOM	521	O	GLY	32	-0.297	-5.173	-1.369	1.00	0.00
ATOM	522	H	GLY	32	1.801	-7.845	-0.185	1.00	0.00
ATOM	523	1HA	GLY	32	-0.322	-8.107	-2.035	1.00	0.00
ATOM	524	2HA	GLY	32	0.848	-6.956	-2.652	1.00	0.00
ATOM	525	N	PRO	33	-0.603	-6.600	0.337	1.00	0.00
ATOM	526	CA	PRO	33	-1.229	-5.598	1.206	1.00	0.00
ATOM	530	C	PRO	33	-0.245	-4.511	1.609	1.00	0.00
ATOM	531	O	PRO	33	-0.535	-3.324	1.503	1.00	0.00
ATOM	527	CB	PRO	33	-1.674	-6.404	2.437	1.00	0.00
ATOM	528	CG	PRO	33	-1.639	-7.830	2.001	1.00	0.00
ATOM	529	CD	PRO	33	-0.526	-7.908	1.003	1.00	0.00
ATOM	532	HA	PRO	33	-2.091	-5.147	0.736	1.00	0.00
ATOM	533	1HB	PRO	33	-2.670	-6.106	2.725	1.00	0.00
ATOM	534	2HB	PRO	33	-0.989	-6.226	3.253	1.00	0.00
ATOM	535	1HG	PRO	33	-2.578	-8.100	1.542	1.00	0.00
ATOM	536	2HG	PRO	33	-1.433	-8.470	2.847	1.00	0.00
ATOM	537	1HD	PRO	33	-0.687	-8.708	0.303	1.00	0.00
ATOM	538	2HD	PRO	33	0.423	-8.029	1.505	1.00	0.00



ATOM	539	N	GLY	34	0.924	-4.938	2.057	1.00	0.00
ATOM	540	CA	GLY	34	1.953	-4.008	2.470	1.00	0.00
ATOM	541	C	GLY	34	2.868	-3.601	1.338	1.00	0.00
ATOM	542	O	GLY	34	4.031	-3.271	1.567	1.00	0.00
ATOM	543	H	GLY	34	1.089	-5.899	2.110	1.00	0.00
ATOM	544	1HA	GLY	34	2.548	-4.473	3.243	1.00	0.00
ATOM	545	2HA	GLY	34	1.488	-3.126	2.879	1.00	0.00
ATOM	546	N	GLU	35	2.360	-3.634	0.116	1.00	0.00
ATOM	547	CA	GLU	35	3.158	-3.256	-1.041	1.00	0.00
ATOM	553	C	GLU	35	3.257	-1.746	-1.112	1.00	0.00
ATOM	554	O	GLU	35	4.345	-1.168	-1.082	1.00	0.00
ATOM	548	CB	GLU	35	2.530	-3.771	-2.330	1.00	0.00
ATOM	549	CG	GLU	35	3.011	-5.147	-2.726	1.00	0.00
ATOM	550	CD	GLU	35	4.199	-5.103	-3.669	1.00	0.00
ATOM	551	OE1	GLU	35	5.307	-4.754	-3.217	1.00	0.00
ATOM	552	OE2	GLU	35	4.025	-5.422	-4.867	1.00	0.00
ATOM	555	H	GLU	35	1.429	-3.911	-0.010	1.00	0.00
ATOM	556	HA	GLU	35	4.144	-3.684	-0.921	1.00	0.00
ATOM	557	1HB	GLU	35	2.767	-3.087	-3.131	1.00	0.00
ATOM	558	2HB	GLU	35	1.458	-3.809	-2.206	1.00	0.00
ATOM	559	1HG	GLU	35	2.199	-5.662	-3.209	1.00	0.00
ATOM	560	2HG	GLU	35	3.296	-5.677	-1.831	1.00	0.00
ATOM	561	N	GLY	36	2.091	-1.128	-1.195	1.00	0.00
ATOM	562	CA	GLY	36	2.003	0.317	-1.256	1.00	0.00
ATOM	563	C	GLY	36	2.384	0.958	0.064	1.00	0.00
ATOM	564	O	GLY	36	2.030	0.447	1.125	1.00	0.00
ATOM	565	H	GLY	36	1.275	-1.670	-1.204	1.00	0.00
ATOM	566	1HA	GLY	36	0.990	0.597	-1.503	1.00	0.00
ATOM	567	2HA	GLY	36	2.667	0.676	-2.028	1.00	0.00
ATOM	568	N	PRO	37	3.130	2.069	0.034	1.00	0.00
ATOM	569	CA	PRO	37	3.571	2.753	1.240	1.00	0.00
ATOM	573	C	PRO	37	2.597	3.832	1.723	1.00	0.00
ATOM	574	O	PRO	37	1.382	3.622	1.801	1.00	0.00
ATOM	570	CB	PRO	37	4.891	3.373	0.787	1.00	0.00
ATOM	571	CG	PRO	37	4.709	3.662	-0.671	1.00	0.00
ATOM	572	CD	PRO	37	3.629	2.734	-1.180	1.00	0.00
ATOM	575	HA	PRO	37	3.759	2.058	2.043	1.00	0.00
ATOM	576	1HB	PRO	37	5.696	2.672	0.951	1.00	0.00
ATOM	577	2HB	PRO	37	5.076	4.278	1.349	1.00	0.00
ATOM	578	1HG	PRO	37	5.635	3.477	-1.195	1.00	0.00
ATOM	579	2HG	PRO	37	4.407	4.689	-0.803	1.00	0.00
ATOM	580	1HD	PRO	37	4.047	2.013	-1.867	1.00	0.00
ATOM	581	2HD	PRO	37	2.842	3.298	-1.659	1.00	0.00
ATOM	582	N	ALA	38	3.144	4.990	2.056	1.00	0.00
ATOM	583	CA	ALA	38	2.355	6.106	2.542	1.00	0.00
ATOM	585	C	ALA	38	1.756	6.906	1.394	1.00	0.00
ATOM	586	O	ALA	38	2.379	7.832	0.873	1.00	0.00
ATOM	584	CB	ALA	38	3.219	6.996	3.412	1.00	0.00
ATOM	587	H	ALA	38	4.115	5.094	1.976	1.00	0.00
ATOM	588	HA	ALA	38	1.555	5.714	3.154	1.00	0.00
ATOM	589	1HB	ALA	38	3.853	7.606	2.787	1.00	0.00
ATOM	590	2HB	ALA	38	3.832	6.381	4.057	1.00	0.00
ATOM	591	3HB	ALA	38	2.588	7.633	4.014	1.00	0.00
ATOM	592	N	ALA	39	0.545	6.547	1.004	1.00	0.00
ATOM	593	CA	ALA	39	-0.149	7.234	-0.075	1.00	0.00
ATOM	595	C	ALA	39	-1.549	7.609	0.378	1.00	0.00
ATOM	596	O	ALA	39	-2.398	8.009	-0.420	1.00	0.00
ATOM	594	CB	ALA	39	-0.209	6.349	-1.311	1.00	0.00
ATOM	597	H	ALA	39	0.096	5.796	1.456	1.00	0.00
ATOM	598	HA	ALA	39	0.402	8.132	-0.318	1.00	0.00
ATOM	599	1HB	ALA	39	0.327	6.825	-2.119	1.00	0.00
ATOM	600	2HB	ALA	39	-1.239	6.203	-1.598	1.00	0.00
ATOM	601	3HB	ALA	39	0.244	5.393	-1.092	1.00	0.00
ATOM	602	N	ASP	40	-1.779	7.454	1.673	1.00	0.00
ATOM	603	CA	ASP	40	-3.067	7.738	2.271	1.00	0.00
ATOM	608	C	ASP	40	-2.927	8.801	3.349	1.00	0.00
ATOM	609	O	ASP	40	-1.834	9.018	3.877	1.00	0.00
ATOM	604	CB	ASP	40	-3.647	6.465	2.891	1.00	0.00
ATOM	605	CG	ASP	40	-3.809	5.326	1.898	1.00	0.00
ATOM	606	OD1	ASP	40	-2.785	4.862	1.351	1.00	0.00
ATOM	607	OD2	ASP	40	-4.951	4.875	1.698	1.00	0.00
ATOM	610	H	ASP	40	-1.064	7.126	2.241	1.00	0.00
ATOM	611	HA	ASP	40	-3.732	8.095	1.500	1.00	0.00



ATOM	612	1HB	ASP	40	-4.612	6.693	3.310	1.00	0.00
ATOM	613	2HB	ASP	40	-2.991	6.131	3.681	1.00	0.00
ATOM	614	N	PRO	41	-4.038	9.454	3.709	1.00	0.00
ATOM	615	CA	PRO	41	-4.060	10.489	4.738	1.00	0.00
ATOM	619	C	PRO	41	-4.116	9.906	6.149	1.00	0.00
ATOM	620	O	PRO	41	-4.763	10.451	7.039	1.00	0.00
ATOM	616	CB	PRO	41	-5.331	11.275	4.414	1.00	0.00
ATOM	617	CG	PRO	41	-6.237	10.309	3.716	1.00	0.00
ATOM	618	CD	PRO	41	-5.375	9.209	3.145	1.00	0.00
ATOM	621	HA	PRO	41	-3.201	11.140	4.657	1.00	0.00
ATOM	622	1HB	PRO	41	-5.085	12.111	3.775	1.00	0.00
ATOM	623	2HB	PRO	41	-5.775	11.637	5.329	1.00	0.00
ATOM	624	1HG	PRO	41	-6.763	10.817	2.920	1.00	0.00
ATOM	625	2HG	PRO	41	-6.942	9.897	4.421	1.00	0.00
ATOM	626	1HD	PRO	41	-5.347	9.263	2.068	1.00	0.00
ATOM	627	2HD	PRO	41	-5.745	8.245	3.458	1.00	0.00
ATOM	628	N	LEU	42	-3.415	8.795	6.336	1.00	0.00
ATOM	629	CA	LEU	42	-3.348	8.112	7.625	1.00	0.00
ATOM	634	C	LEU	42	-2.208	7.105	7.605	1.00	0.00
ATOM	635	O	LEU	42	-1.595	6.823	8.630	1.00	0.00
ATOM	630	CB	LEU	42	-4.671	7.399	7.955	1.00	0.00
ATOM	631	CG	LEU	42	-5.622	7.168	6.772	1.00	0.00
ATOM	632	CD1	LEU	42	-5.493	5.747	6.246	1.00	0.00
ATOM	633	CD2	LEU	42	-7.058	7.459	7.183	1.00	0.00
ATOM	636	H	LEU	42	-2.913	8.431	5.582	1.00	0.00
ATOM	637	HA	LEU	42	-3.140	8.855	8.383	1.00	0.00
ATOM	638	1HB	LEU	42	-5.193	7.986	8.695	1.00	0.00
ATOM	639	2HB	LEU	42	-4.433	6.438	8.388	1.00	0.00
ATOM	640	HG	LEU	42	-5.359	7.845	5.972	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.689	5.700	5.526	1.00	0.00
ATOM	642	2HD1	LEU	42	-6.418	5.451	5.774	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.279	5.077	7.067	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.519	6.554	7.547	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.609	7.827	6.330	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.065	8.205	7.964	1.00	0.00
ATOM	647	N	HIS	43	-1.930	6.579	6.416	1.00	0.00
ATOM	648	CA	HIS	43	-0.859	5.605	6.216	1.00	0.00
ATOM	655	C	HIS	43	0.476	6.163	6.704	1.00	0.00
ATOM	656	O	HIS	43	1.139	5.570	7.554	1.00	0.00
ATOM	649	CB	HIS	43	-0.734	5.279	4.730	1.00	0.00
ATOM	650	CG	HIS	43	-1.507	4.078	4.265	1.00	0.00
ATOM	651	ND1	HIS	43	-1.083	3.271	3.227	1.00	0.00
ATOM	652	CD2	HIS	43	-2.713	3.592	4.646	1.00	0.00
ATOM	653	CE1	HIS	43	-1.997	2.352	2.987	1.00	0.00
ATOM	654	NE2	HIS	43	-2.998	2.521	3.834	1.00	0.00
ATOM	657	H	HIS	43	-2.462	6.856	5.645	1.00	0.00
ATOM	658	HA	HIS	43	-1.097	4.711	6.770	1.00	0.00
ATOM	659	1HB	HIS	43	0.304	5.119	4.504	1.00	0.00
ATOM	660	2HB	HIS	43	-1.084	6.127	4.164	1.00	0.00
ATOM	661	HD1	HIS	43	-0.226	3.346	2.748	1.00	0.00
ATOM	662	HD2	HIS	43	-3.339	3.978	5.440	1.00	0.00
ATOM	663	HE1	HIS	43	-1.937	1.586	2.227	1.00	0.00
ATOM	664	HE2	HIS	43	-3.697	1.855	4.006	1.00	0.00
ATOM	665	N	GLN	44	0.857	7.313	6.145	1.00	0.00
ATOM	666	CA	GLN	44	2.113	7.980	6.498	1.00	0.00
ATOM	672	C	GLN	44	2.184	8.287	7.988	1.00	0.00
ATOM	673	O	GLN	44	3.266	8.445	8.551	1.00	0.00
ATOM	667	CB	GLN	44	2.249	9.288	5.706	1.00	0.00
ATOM	668	CG	GLN	44	3.665	9.843	5.667	1.00	0.00
ATOM	669	CD	GLN	44	3.708	11.360	5.569	1.00	0.00
ATOM	670	OE1	GLN	44	2.761	12.050	5.948	1.00	0.00
ATOM	671	NE2	GLN	44	4.812	11.886	5.057	1.00	0.00
ATOM	674	H	GLN	44	0.279	7.725	5.470	1.00	0.00
ATOM	675	HA	GLN	44	2.928	7.323	6.234	1.00	0.00
ATOM	676	1HB	GLN	44	1.606	10.033	6.152	1.00	0.00
ATOM	677	2HB	GLN	44	1.929	9.113	4.689	1.00	0.00
ATOM	678	1HG	GLN	44	4.176	9.428	4.810	1.00	0.00
ATOM	679	2HG	GLN	44	4.178	9.544	6.569	1.00	0.00
ATOM	680	1HE2	GLN	44	5.527	11.277	4.777	1.00	0.00
ATOM	681	2HE2	GLN	44	4.872	12.865	4.974	1.00	0.00
ATOM	682	N	ALA	45	1.024	8.376	8.614	1.00	0.00
ATOM	683	CA	ALA	45	0.951	8.680	10.034	1.00	0.00
ATOM	685	C	ALA	45	1.160	7.443	10.898	1.00	0.00



ATOM	686	O	ALA	45	1.953	7.464	11.839	1.00	0.00
ATOM	684	CB	ALA	45	-0.382	9.327	10.357	1.00	0.00
ATOM	687	H	ALA	45	0.194	8.233	8.105	1.00	0.00
ATOM	688	HA	ALA	45	1.729	9.395	10.257	1.00	0.00
ATOM	689	1HB	ALA	45	-0.291	10.400	10.275	1.00	0.00
ATOM	690	2HB	ALA	45	-0.674	9.067	11.364	1.00	0.00
ATOM	691	3HB	ALA	45	-1.131	8.975	9.663	1.00	0.00
ATOM	692	N	MET	46	0.438	6.372	10.593	1.00	0.00
ATOM	693	CA	MET	46	0.543	5.145	11.374	1.00	0.00
ATOM	698	C	MET	46	1.911	4.498	11.233	1.00	0.00
ATOM	699	O	MET	46	2.481	4.028	12.218	1.00	0.00
ATOM	694	CB	MET	46	-0.547	4.154	10.974	1.00	0.00
ATOM	695	CG	MET	46	-0.893	3.178	12.084	1.00	0.00
ATOM	696	SD	MET	46	-2.604	2.631	12.025	1.00	0.00
ATOM	697	CE	MET	46	-3.350	3.769	13.183	1.00	0.00
ATOM	700	H	MET	46	-0.192	6.410	9.834	1.00	0.00
ATOM	701	HA	MET	46	0.404	5.409	12.414	1.00	0.00
ATOM	702	1HB	MET	46	-0.210	3.590	10.118	1.00	0.00
ATOM	703	2HB	MET	46	-1.440	4.702	10.710	1.00	0.00
ATOM	704	1HG	MET	46	-0.717	3.657	13.036	1.00	0.00
ATOM	705	2HG	MET	46	-0.258	2.317	11.997	1.00	0.00
ATOM	706	1HE	MET	46	-2.731	4.648	13.273	1.00	0.00
ATOM	707	2HE	MET	46	-3.445	3.293	14.147	1.00	0.00
ATOM	708	3HE	MET	46	-4.330	4.054	12.823	1.00	0.00
ATOM	709	N	ARG	47	2.437	4.471	10.015	1.00	0.00
ATOM	710	CA	ARG	47	3.741	3.867	9.767	1.00	0.00
ATOM	718	C	ARG	47	4.849	4.624	10.490	1.00	0.00
ATOM	719	O	ARG	47	5.845	4.029	10.905	1.00	0.00
ATOM	711	CB	ARG	47	4.032	3.811	8.268	1.00	0.00
ATOM	712	CG	ARG	47	4.421	2.424	7.782	1.00	0.00
ATOM	713	CD	ARG	47	5.598	2.473	6.819	1.00	0.00
ATOM	714	NE	ARG	47	6.883	2.583	7.515	1.00	0.00
ATOM	715	CZ	ARG	47	7.850	3.433	7.164	1.00	0.00
ATOM	716	NH1	ARG	47	7.681	4.244	6.128	1.00	0.00
ATOM	717	NH2	ARG	47	8.989	3.466	7.843	1.00	0.00
ATOM	720	H	ARG	47	1.933	4.860	9.264	1.00	0.00
ATOM	721	HA	ARG	47	3.710	2.858	10.151	1.00	0.00
ATOM	722	1HB	ARG	47	4.842	4.489	8.043	1.00	0.00
ATOM	723	2HB	ARG	47	3.151	4.124	7.729	1.00	0.00
ATOM	724	1HG	ARG	47	3.574	1.980	7.279	1.00	0.00
ATOM	725	2HG	ARG	47	4.693	1.818	8.634	1.00	0.00
ATOM	726	1HD	ARG	47	5.478	3.329	6.170	1.00	0.00
ATOM	727	2HD	ARG	47	5.598	1.572	6.224	1.00	0.00
ATOM	728	HE	ARG	47	7.031	1.989	8.286	1.00	0.00
ATOM	729	1HH1	ARG	47	6.831	4.224	5.605	1.00	0.00
ATOM	730	2HH1	ARG	47	8.418	4.890	5.866	1.00	0.00
ATOM	731	1HH2	ARG	47	9.134	2.846	8.630	1.00	0.00
ATOM	732	2HH2	ARG	47	9.714	4.111	7.581	1.00	0.00
ATOM	733	N	ALA	48	4.666	5.929	10.663	1.00	0.00
ATOM	734	CA	ALA	48	5.658	6.739	11.354	1.00	0.00
ATOM	736	C	ALA	48	5.528	6.545	12.851	1.00	0.00
ATOM	737	O	ALA	48	6.526	6.426	13.564	1.00	0.00
ATOM	735	CB	ALA	48	5.506	8.205	10.988	1.00	0.00
ATOM	738	H	ALA	48	3.841	6.350	10.336	1.00	0.00
ATOM	739	HA	ALA	48	6.641	6.405	11.042	1.00	0.00
ATOM	740	1HB	ALA	48	4.470	8.416	10.769	1.00	0.00
ATOM	741	2HB	ALA	48	6.111	8.426	10.123	1.00	0.00
ATOM	742	3HB	ALA	48	5.828	8.818	11.818	1.00	0.00
ATOM	743	N	ALA	49	4.285	6.489	13.315	1.00	0.00
ATOM	744	CA	ALA	49	4.007	6.276	14.721	1.00	0.00
ATOM	746	C	ALA	49	4.610	4.953	15.151	1.00	0.00
ATOM	747	O	ALA	49	5.416	4.896	16.082	1.00	0.00
ATOM	745	CB	ALA	49	2.508	6.290	14.973	1.00	0.00
ATOM	748	H	ALA	49	3.536	6.574	12.687	1.00	0.00
ATOM	749	HA	ALA	49	4.461	7.079	15.286	1.00	0.00
ATOM	750	1HB	ALA	49	2.207	5.347	15.407	1.00	0.00
ATOM	751	2HB	ALA	49	1.987	6.436	14.037	1.00	0.00
ATOM	752	3HB	ALA	49	2.262	7.094	15.651	1.00	0.00
ATOM	753	N	GLY	50	4.218	3.894	14.444	1.00	0.00
ATOM	754	CA	GLY	50	4.725	2.564	14.724	1.00	0.00
ATOM	755	C	GLY	50	6.239	2.524	14.815	1.00	0.00
ATOM	756	O	GLY	50	6.780	1.922	15.724	1.00	0.00
ATOM	757	H	GLY	50	3.569	4.024	13.715	1.00	0.00



ATOM	758	1HA	GLY	50	4.404	1.896	13.939	1.00	0.00
ATOM	759	2HA	GLY	50	4.311	2.224	15.662	1.00	0.00
ATOM	760	N	ASP	51	6.917	3.180	13.877	1.00	0.00
ATOM	761	CA	ASP	51	8.384	3.234	13.852	1.00	0.00
ATOM	766	C	ASP	51	8.943	3.851	15.135	1.00	0.00
ATOM	767	O	ASP	51	9.789	3.258	15.813	1.00	0.00
ATOM	762	CB	ASP	51	8.853	4.060	12.651	1.00	0.00
ATOM	763	CG	ASP	51	10.342	3.926	12.394	1.00	0.00
ATOM	764	OD1	ASP	51	11.125	4.699	12.987	1.00	0.00
ATOM	765	OD2	ASP	51	10.730	3.055	11.584	1.00	0.00
ATOM	768	H	ASP	51	6.420	3.648	13.178	1.00	0.00
ATOM	769	HA	ASP	51	8.759	2.225	13.759	1.00	0.00
ATOM	770	1HB	ASP	51	8.632	5.101	12.836	1.00	0.00
ATOM	771	2HB	ASP	51	8.320	3.739	11.768	1.00	0.00
ATOM	772	N	GLU	52	8.465	5.048	15.461	1.00	0.00
ATOM	773	CA	GLU	52	8.911	5.758	16.654	1.00	0.00
ATOM	779	C	GLU	52	8.606	4.952	17.916	1.00	0.00
ATOM	780	O	GLU	52	9.442	4.849	18.820	1.00	0.00
ATOM	774	CB	GLU	52	8.245	7.140	16.714	1.00	0.00
ATOM	775	CG	GLU	52	8.012	7.662	18.125	1.00	0.00
ATOM	776	CD	GLU	52	8.326	9.135	18.264	1.00	0.00
ATOM	777	OE1	GLU	52	7.440	9.968	17.974	1.00	0.00
ATOM	778	OE2	GLU	52	9.458	9.461	18.671	1.00	0.00
ATOM	781	H	GLU	52	7.794	5.469	14.878	1.00	0.00
ATOM	782	HA	GLU	52	9.982	5.889	16.580	1.00	0.00
ATOM	783	1HB	GLU	52	7.290	7.084	16.213	1.00	0.00
ATOM	784	2HB	GLU	52	8.871	7.848	16.194	1.00	0.00
ATOM	785	1HG	GLU	52	8.639	7.108	18.808	1.00	0.00
ATOM	786	2HG	GLU	52	6.975	7.506	18.385	1.00	0.00
ATOM	787	N	PHE	53	7.414	4.381	17.978	1.00	0.00
ATOM	788	CA	PHE	53	7.021	3.598	19.134	1.00	0.00
ATOM	796	C	PHE	53	7.723	2.252	19.159	1.00	0.00
ATOM	797	O	PHE	53	7.984	1.723	20.222	1.00	0.00
ATOM	789	CB	PHE	53	5.513	3.406	19.184	1.00	0.00
ATOM	790	CG	PHE	53	4.888	3.968	20.429	1.00	0.00
ATOM	791	CD1	PHE	53	5.034	5.310	20.747	1.00	0.00
ATOM	792	CD2	PHE	53	4.163	3.156	21.285	1.00	0.00
ATOM	793	CE1	PHE	53	4.467	5.831	21.894	1.00	0.00
ATOM	794	CE2	PHE	53	3.591	3.672	22.432	1.00	0.00
ATOM	795	CZ	PHE	53	3.745	5.010	22.737	1.00	0.00
ATOM	798	H	PHE	53	6.784	4.495	17.230	1.00	0.00
ATOM	799	HA	PHE	53	7.324	4.151	20.011	1.00	0.00
ATOM	800	1HB	PHE	53	5.288	2.349	19.145	1.00	0.00
ATOM	801	2HB	PHE	53	5.065	3.896	18.333	1.00	0.00
ATOM	802	HD1	PHE	53	5.597	5.953	20.086	1.00	0.00
ATOM	803	HD2	PHE	53	4.042	2.109	21.048	1.00	0.00
ATOM	804	HE1	PHE	53	4.588	6.878	22.131	1.00	0.00
ATOM	805	HE2	PHE	53	3.029	3.028	23.091	1.00	0.00
ATOM	806	HZ	PHE	53	3.301	5.415	23.635	1.00	0.00
ATOM	807	N	GLU	54	8.042	1.708	17.998	1.00	0.00
ATOM	808	CA	GLU	54	8.734	0.428	17.923	1.00	0.00
ATOM	814	C	GLU	54	10.122	0.582	18.532	1.00	0.00
ATOM	815	O	GLU	54	10.684	-0.350	19.111	1.00	0.00
ATOM	809	CB	GLU	54	8.819	-0.040	16.462	1.00	0.00
ATOM	810	CG	GLU	54	9.744	-1.224	16.237	1.00	0.00
ATOM	811	CD	GLU	54	9.263	-2.128	15.124	1.00	0.00
ATOM	812	OE1	GLU	54	8.463	-3.044	15.396	1.00	0.00
ATOM	813	OE2	GLU	54	9.675	-1.924	13.961	1.00	0.00
ATOM	816	H	GLU	54	7.816	2.180	17.165	1.00	0.00
ATOM	817	HA	GLU	54	8.170	-0.290	18.500	1.00	0.00
ATOM	818	1HB	GLU	54	9.160	0.788	15.849	1.00	0.00
ATOM	819	2HB	GLU	54	7.829	-0.324	16.134	1.00	0.00
ATOM	820	1HG	GLU	54	9.802	-1.799	17.149	1.00	0.00
ATOM	821	2HG	GLU	54	10.726	-0.856	15.981	1.00	0.00
ATOM	822	N	THR	55	10.654	1.787	18.409	1.00	0.00
ATOM	823	CA	THR	55	11.959	2.113	18.948	1.00	0.00
ATOM	827	C	THR	55	11.887	2.384	20.460	1.00	0.00
ATOM	828	O	THR	55	12.820	2.083	21.202	1.00	0.00
ATOM	824	CB	THR	55	12.541	3.341	18.218	1.00	0.00
ATOM	825	OG1	THR	55	12.572	3.089	16.803	1.00	0.00
ATOM	826	CG2	THR	55	13.942	3.672	18.716	1.00	0.00
ATOM	829	H	THR	55	10.142	2.485	17.943	1.00	0.00
ATOM	830	HA	THR	55	12.613	1.271	18.770	1.00	0.00



ATOM	831	HB	THR	55	11.895	4.189	18.406	1.00	0.00
ATOM	832	HG1	THR	55	11.678	3.182	16.437	1.00	0.00
ATOM	833	1HG2	THR	55	14.210	4.671	18.403	1.00	0.00
ATOM	834	2HG2	THR	55	14.648	2.965	18.304	1.00	0.00
ATOM	835	3HG2	THR	55	13.963	3.615	19.793	1.00	0.00
ATOM	836	N	ARG	56	10.774	2.958	20.913	1.00	0.00
ATOM	837	CA	ARG	56	10.597	3.273	22.333	1.00	0.00
ATOM	845	C	ARG	56	9.961	2.103	23.100	1.00	0.00
ATOM	846	O	ARG	56	10.474	1.661	24.127	1.00	0.00
ATOM	838	CB	ARG	56	9.727	4.527	22.492	1.00	0.00
ATOM	839	CG	ARG	56	10.420	5.820	22.074	1.00	0.00
ATOM	840	CD	ARG	56	9.611	7.044	22.491	1.00	0.00
ATOM	841	NE	ARG	56	9.760	8.164	21.558	1.00	0.00
ATOM	842	CZ	ARG	56	10.065	9.411	21.925	1.00	0.00
ATOM	843	NH1	ARG	56	10.311	9.701	23.199	1.00	0.00
ATOM	844	NH2	ARG	56	10.131	10.372	21.018	1.00	0.00
ATOM	847	H	ARG	56	10.060	3.181	20.279	1.00	0.00
ATOM	848	HA	ARG	56	11.572	3.472	22.751	1.00	0.00
ATOM	849	1HB	ARG	56	9.437	4.618	23.528	1.00	0.00
ATOM	850	2HB	ARG	56	8.839	4.411	21.888	1.00	0.00
ATOM	851	1HG	ARG	56	10.537	5.824	20.999	1.00	0.00
ATOM	852	2HG	ARG	56	11.390	5.865	22.545	1.00	0.00
ATOM	853	1HD	ARG	56	9.940	7.363	23.470	1.00	0.00
ATOM	854	2HD	ARG	56	8.568	6.769	22.537	1.00	0.00
ATOM	855	HE	ARG	56	9.603	7.980	20.601	1.00	0.00
ATOM	856	1HH1	ARG	56	10.273	8.988	23.897	1.00	0.00
ATOM	857	2HH1	ARG	56	10.530	10.655	23.462	1.00	0.00
ATOM	858	1HH2	ARG	56	9.947	10.163	20.039	1.00	0.00
ATOM	859	2HH2	ARG	56	10.360	11.312	21.294	1.00	0.00
ATOM	860	N	PHE	57	8.842	1.614	22.592	1.00	0.00
ATOM	861	CA	PHE	57	8.107	0.504	23.192	1.00	0.00
ATOM	869	C	PHE	57	8.652	-0.840	22.705	1.00	0.00
ATOM	870	O	PHE	57	7.950	-1.597	22.032	1.00	0.00
ATOM	862	CB	PHE	57	6.621	0.628	22.835	1.00	0.00
ATOM	863	CG	PHE	57	5.667	0.074	23.860	1.00	0.00
ATOM	864	CD1	PHE	57	6.100	-0.285	25.128	1.00	0.00
ATOM	865	CD2	PHE	57	4.326	-0.082	23.545	1.00	0.00
ATOM	866	CE1	PHE	57	5.210	-0.788	26.061	1.00	0.00
ATOM	867	CE2	PHE	57	3.435	-0.584	24.471	1.00	0.00
ATOM	868	CZ	PHE	57	3.876	-0.938	25.731	1.00	0.00
ATOM	871	H	PHE	57	8.491	2.009	21.762	1.00	0.00
ATOM	872	HA	PHE	57	8.221	0.564	24.264	1.00	0.00
ATOM	873	1HB	PHE	57	6.442	0.109	21.903	1.00	0.00
ATOM	874	2HB	PHE	57	6.382	1.672	22.702	1.00	0.00
ATOM	875	HD1	PHE	57	7.141	-0.168	25.385	1.00	0.00
ATOM	876	HD2	PHE	57	3.979	0.193	22.560	1.00	0.00
ATOM	877	HE1	PHE	57	5.558	-1.064	27.044	1.00	0.00
ATOM	878	HE2	PHE	57	2.393	-0.700	24.212	1.00	0.00
ATOM	879	HZ	PHE	57	3.177	-1.329	26.455	1.00	0.00
ATOM	880	N	ARG	58	9.903	-1.127	23.042	1.00	0.00
ATOM	881	CA	ARG	58	10.548	-2.375	22.631	1.00	0.00
ATOM	889	C	ARG	58	9.922	-3.591	23.319	1.00	0.00
ATOM	890	O	ARG	58	10.082	-4.729	22.869	1.00	0.00
ATOM	882	CB	ARG	58	12.042	-2.318	22.945	1.00	0.00
ATOM	883	CG	ARG	58	12.925	-2.475	21.719	1.00	0.00
ATOM	884	CD	ARG	58	14.366	-2.101	22.020	1.00	0.00
ATOM	885	NE	ARG	58	15.208	-3.279	22.239	1.00	0.00
ATOM	886	CZ	ARG	58	16.423	-3.433	21.713	1.00	0.00
ATOM	887	NH1	ARG	58	16.935	-2.493	20.927	1.00	0.00
ATOM	888	NH2	ARG	58	17.122	-4.533	21.970	1.00	0.00
ATOM	891	H	ARG	58	10.414	-0.478	23.574	1.00	0.00
ATOM	892	HA	ARG	58	10.420	-2.475	21.564	1.00	0.00
ATOM	893	1HB	ARG	58	12.283	-3.111	23.639	1.00	0.00
ATOM	894	2HB	ARG	58	12.267	-1.368	23.406	1.00	0.00
ATOM	895	1HG	ARG	58	12.551	-1.833	20.935	1.00	0.00
ATOM	896	2HG	ARG	58	12.891	-3.504	21.391	1.00	0.00
ATOM	897	1HD	ARG	58	14.386	-1.485	22.906	1.00	0.00
ATOM	898	2HD	ARG	58	14.759	-1.539	21.185	1.00	0.00
ATOM	899	HE	ARG	58	14.846	-3.993	22.812	1.00	0.00
ATOM	900	1HH1	ARG	58	16.408	-1.657	20.722	1.00	0.00
ATOM	901	2HH1	ARG	58	17.855	-2.608	20.528	1.00	0.00
ATOM	902	1HH2	ARG	58	16.730	-5.252	22.563	1.00	0.00
ATOM	903	2HH2	ARG	58	18.036	-4.657	21.576	1.00	0.00



ATOM	904	N	ARG	59	9.205	-3.346	24.408	1.00	0.00
ATOM	905	CA	ARG	59	8.552	-4.413	25.158	1.00	0.00
ATOM	913	C	ARG	59	7.224	-4.803	24.506	1.00	0.00
ATOM	914	O	ARG	59	6.167	-4.713	25.125	1.00	0.00
ATOM	906	CB	ARG	59	8.317	-3.970	26.606	1.00	0.00
ATOM	907	CG	ARG	59	8.188	-5.126	27.584	1.00	0.00
ATOM	908	CD	ARG	59	6.822	-5.141	28.251	1.00	0.00
ATOM	909	NE	ARG	59	6.203	-6.465	28.198	1.00	0.00
ATOM	910	CZ	ARG	59	6.410	-7.425	29.099	1.00	0.00
ATOM	911	NH1	ARG	59	7.181	-7.202	30.159	1.00	0.00
ATOM	912	NH2	ARG	59	5.842	-8.609	28.933	1.00	0.00
ATOM	915	H	ARG	59	9.110	-2.422	24.712	1.00	0.00
ATOM	916	HA	ARG	59	9.206	-5.271	25.156	1.00	0.00
ATOM	917	1HB	ARG	59	7.407	-3.389	26.650	1.00	0.00
ATOM	918	2HB	ARG	59	9.143	-3.351	26.921	1.00	0.00
ATOM	919	1HG	ARG	59	8.950	-5.031	28.344	1.00	0.00
ATOM	920	2HG	ARG	59	8.326	-6.054	27.049	1.00	0.00
ATOM	921	1HD	ARG	59	6.181	-4.434	27.746	1.00	0.00
ATOM	922	2HD	ARG	59	6.937	-4.848	29.285	1.00	0.00
ATOM	923	HE	ARG	59	5.603	-6.657	27.432	1.00	0.00
ATOM	924	1HH1	ARG	59	7.618	-6.303	30.290	1.00	0.00
ATOM	925	2HH1	ARG	59	7.330	-7.928	30.832	1.00	0.00
ATOM	926	1HH2	ARG	59	5.257	-8.773	28.122	1.00	0.00
ATOM	927	2HH2	ARG	59	5.987	-9.347	29.606	1.00	0.00
ATOM	928	N	THR	60	7.285	-5.216	23.250	1.00	0.00
ATOM	929	CA	THR	60	6.089	-5.599	22.515	1.00	0.00
ATOM	933	C	THR	60	6.167	-7.044	22.019	1.00	0.00
ATOM	934	O	THR	60	5.243	-7.835	22.214	1.00	0.00
ATOM	930	CB	THR	60	5.882	-4.664	21.313	1.00	0.00
ATOM	931	OG1	THR	60	7.145	-4.105	20.921	1.00	0.00
ATOM	932	CG2	THR	60	4.912	-3.545	21.658	1.00	0.00
ATOM	935	H	THR	60	8.157	-5.247	22.798	1.00	0.00
ATOM	936	HA	THR	60	5.241	-5.496	23.175	1.00	0.00
ATOM	937	HB	THR	60	5.477	-5.237	20.492	1.00	0.00
ATOM	938	HG1	THR	60	7.181	-3.174	21.178	1.00	0.00
ATOM	939	1HG2	THR	60	4.637	-3.616	22.700	1.00	0.00
ATOM	940	2HG2	THR	60	4.028	-3.633	21.044	1.00	0.00
ATOM	941	3HG2	THR	60	5.384	-2.592	21.474	1.00	0.00
ATOM	942	N	PHE	61	7.270	-7.369	21.351	1.00	0.00
ATOM	943	CA	PHE	61	7.478	-8.702	20.781	1.00	0.00
ATOM	951	C	PHE	61	7.510	-9.804	21.839	1.00	0.00
ATOM	952	O	PHE	61	7.315	-10.976	21.524	1.00	0.00
ATOM	944	CB	PHE	61	8.773	-8.724	19.966	1.00	0.00
ATOM	945	CG	PHE	61	8.561	-8.452	18.503	1.00	0.00
ATOM	946	CD1	PHE	61	8.163	-7.197	18.067	1.00	0.00
ATOM	947	CD2	PHE	61	8.750	-9.454	17.563	1.00	0.00
ATOM	948	CE1	PHE	61	7.962	-6.945	16.723	1.00	0.00
ATOM	949	CE2	PHE	61	8.550	-9.207	16.218	1.00	0.00
ATOM	950	CZ	PHE	61	8.155	-7.951	15.797	1.00	0.00
ATOM	953	H	PHE	61	7.956	-6.683	21.211	1.00	0.00
ATOM	954	HA	PHE	61	6.654	-8.898	20.113	1.00	0.00
ATOM	955	1HB	PHE	61	9.235	-9.696	20.062	1.00	0.00
ATOM	956	2HB	PHE	61	9.445	-7.971	20.350	1.00	0.00
ATOM	957	HD1	PHE	61	8.013	-6.410	18.791	1.00	0.00
ATOM	958	HD2	PHE	61	9.059	-10.436	17.890	1.00	0.00
ATOM	959	HE1	PHE	61	7.653	-5.963	16.398	1.00	0.00
ATOM	960	HE2	PHE	61	8.703	-9.996	15.495	1.00	0.00
ATOM	961	HZ	PHE	61	7.998	-7.757	14.747	1.00	0.00
ATOM	962	N	SER	62	7.754	-9.441	23.085	1.00	0.00
ATOM	963	CA	SER	62	7.807	-10.422	24.156	1.00	0.00
ATOM	966	C	SER	62	6.417	-10.937	24.504	1.00	0.00
ATOM	967	O	SER	62	6.235	-12.122	24.785	1.00	0.00
ATOM	964	CB	SER	62	8.463	-9.798	25.387	1.00	0.00
ATOM	965	OG	SER	62	8.325	-8.384	25.361	1.00	0.00
ATOM	968	H	SER	62	7.905	-8.493	23.294	1.00	0.00
ATOM	969	HA	SER	62	8.401	-11.254	23.814	1.00	0.00
ATOM	970	1HB	SER	62	9.514	-10.048	25.399	1.00	0.00
ATOM	971	2HB	SER	62	7.988	-10.179	26.279	1.00	0.00
ATOM	972	HG	SER	62	7.588	-8.125	25.932	1.00	0.00
ATOM	973	N	ASP	63	5.446	-10.037	24.488	1.00	0.00
ATOM	974	CA	ASP	63	4.065	-10.379	24.813	1.00	0.00
ATOM	979	C	ASP	63	3.485	-11.298	23.760	1.00	0.00
ATOM	980	O	ASP	63	2.618	-12.123	24.049	1.00	0.00



ATOM	975	CB	ASP	63	3.221	-9.106	24.938	1.00	0.00
ATOM	976	CG	ASP	63	3.641	-8.225	26.105	1.00	0.00
ATOM	977	OD1	ASP	63	4.836	-8.250	26.481	1.00	0.00
ATOM	978	OD2	ASP	63	2.783	-7.507	26.652	1.00	0.00
ATOM	981	H	ASP	63	5.662	-9.107	24.263	1.00	0.00
ATOM	982	HA	ASP	63	4.064	-10.908	25.752	1.00	0.00
ATOM	983	1HB	ASP	63	2.187	-9.384	25.075	1.00	0.00
ATOM	984	2HB	ASP	63	3.317	-8.531	24.030	1.00	0.00
ATOM	985	N	LEU	64	3.992	-11.172	22.549	1.00	0.00
ATOM	986	CA	LEU	64	3.557	-12.011	21.445	1.00	0.00
ATOM	991	C	LEU	64	3.857	-13.467	21.770	1.00	0.00
ATOM	992	O	LEU	64	3.029	-14.356	21.567	1.00	0.00
ATOM	987	CB	LEU	64	4.288	-11.615	20.165	1.00	0.00
ATOM	988	CG	LEU	64	4.378	-10.116	19.895	1.00	0.00
ATOM	989	CD1	LEU	64	5.118	-9.868	18.592	1.00	0.00
ATOM	990	CD2	LEU	64	2.991	-9.488	19.859	1.00	0.00
ATOM	993	H	LEU	64	4.696	-10.509	22.396	1.00	0.00
ATOM	994	HA	LEU	64	2.495	-11.884	21.311	1.00	0.00
ATOM	995	1HB	LEU	64	3.790	-12.082	19.328	1.00	0.00
ATOM	996	2HB	LEU	64	5.296	-12.003	20.227	1.00	0.00
ATOM	997	HG	LEU	64	4.939	-9.647	20.691	1.00	0.00
ATOM	998	1HD1	LEU	64	4.466	-9.360	17.898	1.00	0.00
ATOM	999	2HD1	LEU	64	5.426	-10.813	18.169	1.00	0.00
ATOM	1000	3HD1	LEU	64	5.988	-9.258	18.782	1.00	0.00
ATOM	1001	1HD2	LEU	64	3.076	-8.416	19.967	1.00	0.00
ATOM	1002	2HD2	LEU	64	2.396	-9.885	20.670	1.00	0.00
ATOM	1003	3HD2	LEU	64	2.515	-9.718	18.918	1.00	0.00
ATOM	1004	N	ALA	65	5.051	-13.690	22.304	1.00	0.00
ATOM	1005	CA	ALA	65	5.480	-15.026	22.680	1.00	0.00
ATOM	1007	C	ALA	65	4.816	-15.438	23.981	1.00	0.00
ATOM	1008	O	ALA	65	4.385	-16.575	24.130	1.00	0.00
ATOM	1006	CB	ALA	65	6.993	-15.088	22.805	1.00	0.00
ATOM	1009	H	ALA	65	5.651	-12.930	22.462	1.00	0.00
ATOM	1010	HA	ALA	65	5.174	-15.708	21.899	1.00	0.00
ATOM	1011	1HB	ALA	65	7.259	-15.515	23.761	1.00	0.00
ATOM	1012	2HB	ALA	65	7.403	-14.092	22.728	1.00	0.00
ATOM	1013	3HB	ALA	65	7.394	-15.703	22.014	1.00	0.00
ATOM	1014	N	ALA	66	4.725	-14.490	24.912	1.00	0.00
ATOM	1015	CA	ALA	66	4.093	-14.730	26.206	1.00	0.00
ATOM	1017	C	ALA	66	2.705	-15.336	26.024	1.00	0.00
ATOM	1018	O	ALA	66	2.339	-16.302	26.693	1.00	0.00
ATOM	1016	CB	ALA	66	4.009	-13.431	26.987	1.00	0.00
ATOM	1019	H	ALA	66	5.086	-13.594	24.715	1.00	0.00
ATOM	1020	HA	ALA	66	4.709	-15.419	26.763	1.00	0.00
ATOM	1021	1HB	ALA	66	4.645	-13.492	27.859	1.00	0.00
ATOM	1022	2HB	ALA	66	2.988	-13.263	27.295	1.00	0.00
ATOM	1023	3HB	ALA	66	4.336	-12.613	26.361	1.00	0.00
ATOM	1024	N	GLN	67	1.942	-14.760	25.103	1.00	0.00
ATOM	1025	CA	GLN	67	0.590	-15.234	24.814	1.00	0.00
ATOM	1031	C	GLN	67	0.588	-16.618	24.168	1.00	0.00
ATOM	1032	O	GLN	67	-0.098	-17.530	24.632	1.00	0.00
ATOM	1026	CB	GLN	67	-0.124	-14.277	23.868	1.00	0.00
ATOM	1027	CG	GLN	67	-0.516	-12.959	24.491	1.00	0.00
ATOM	1028	CD	GLN	67	-0.837	-11.924	23.440	1.00	0.00
ATOM	1029	OE1	GLN	67	-1.987	-11.766	23.040	1.00	0.00
ATOM	1030	NE2	GLN	67	0.182	-11.224	22.976	1.00	0.00
ATOM	1033	H	GLN	67	2.301	-13.985	24.604	1.00	0.00
ATOM	1034	HA	GLN	67	0.044	-15.279	25.744	1.00	0.00
ATOM	1035	1HB	GLN	67	-1.020	-14.758	23.504	1.00	0.00
ATOM	1036	2HB	GLN	67	0.524	-14.070	23.029	1.00	0.00
ATOM	1037	1HG	GLN	67	0.303	-12.599	25.097	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.389	-13.111	25.110	1.00	0.00
ATOM	1039	1HE2	GLN	67	1.077	-11.414	23.335	1.00	0.00
ATOM	1040	2HE2	GLN	67	0.003	-10.543	22.297	1.00	0.00
ATOM	1041	N	LEU	68	1.320	-16.751	23.066	1.00	0.00
ATOM	1042	CA	LEU	68	1.361	-18.006	22.317	1.00	0.00
ATOM	1047	C	LEU	68	2.376	-19.003	22.872	1.00	0.00
ATOM	1048	O	LEU	68	2.756	-19.953	22.187	1.00	0.00
ATOM	1043	CB	LEU	68	1.658	-17.722	20.840	1.00	0.00
ATOM	1044	CG	LEU	68	0.469	-17.214	20.009	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.858	-17.655	20.615	1.00	0.00
ATOM	1046	CD2	LEU	68	0.516	-15.700	19.875	1.00	0.00
ATOM	1049	H	LEU	68	1.819	-15.975	22.724	1.00	0.00



ATOM	1050	HA	LEU	68	0.380	-18.450	22.384	1.00	0.00
ATOM	1051	1HB	LEU	68	2.018	-18.634	20.389	1.00	0.00
ATOM	1052	2HB	LEU	68	2.446	-16.983	20.791	1.00	0.00
ATOM	1053	HG	LEU	68	0.533	-17.637	19.016	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.949	-18.728	20.541	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.671	-17.189	20.078	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.896	-17.361	21.653	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.056	-15.396	19.011	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.542	-15.380	19.757	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.098	-15.247	20.761	1.00	0.00
ATOM	1060	N	HIS	69	2.812	-18.796	24.105	1.00	0.00
ATOM	1061	CA	HIS	69	3.780	-19.694	24.726	1.00	0.00
ATOM	1068	C	HIS	69	3.093	-20.967	25.211	1.00	0.00
ATOM	1069	O	HIS	69	3.697	-22.039	25.248	1.00	0.00
ATOM	1062	CB	HIS	69	4.474	-18.993	25.900	1.00	0.00
ATOM	1063	CG	HIS	69	5.652	-19.739	26.454	1.00	0.00
ATOM	1064	ND1	HIS	69	6.592	-20.360	25.664	1.00	0.00
ATOM	1065	CD2	HIS	69	6.037	-19.957	27.734	1.00	0.00
ATOM	1066	CE1	HIS	69	7.503	-20.931	26.430	1.00	0.00
ATOM	1067	NE2	HIS	69	7.191	-20.701	27.691	1.00	0.00
ATOM	1070	H	HIS	69	2.487	-18.019	24.605	1.00	0.00
ATOM	1071	HA	HIS	69	4.516	-19.954	23.983	1.00	0.00
ATOM	1072	1HB	HIS	69	3.760	-18.859	26.700	1.00	0.00
ATOM	1073	2HB	HIS	69	4.823	-18.025	25.575	1.00	0.00
ATOM	1074	HD1	HIS	69	6.594	-20.380	24.673	1.00	0.00
ATOM	1075	HD2	HIS	69	5.532	-19.608	28.623	1.00	0.00
ATOM	1076	HE1	HIS	69	8.358	-21.492	26.083	1.00	0.00
ATOM	1077	HE2	HIS	69	7.600	-21.149	28.461	1.00	0.00
ATOM	1078	N	VAL	70	1.830	-20.837	25.582	1.00	0.00
ATOM	1079	CA	VAL	70	1.063	-21.976	26.063	1.00	0.00
ATOM	1083	C	VAL	70	0.319	-22.668	24.911	1.00	0.00
ATOM	1084	O	VAL	70	0.618	-23.815	24.583	1.00	0.00
ATOM	1080	CB	VAL	70	0.089	-21.562	27.201	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.710	-20.316	26.838	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.834	-22.714	27.576	1.00	0.00
ATOM	1085	H	VAL	70	1.405	-19.959	25.527	1.00	0.00
ATOM	1086	HA	VAL	70	1.770	-22.683	26.476	1.00	0.00
ATOM	1087	HB	VAL	70	0.685	-21.325	28.070	1.00	0.00
ATOM	1088	1HG1	VAL	70	-1.328	-20.521	25.976	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.031	-19.508	26.608	1.00	0.00
ATOM	1090	3HG1	VAL	70	-1.336	-20.033	27.672	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.800	-22.325	27.859	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.408	-23.261	28.404	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.947	-23.375	26.729	1.00	0.00
ATOM	1094	N	THR	71	-0.636	-21.973	24.299	1.00	0.00
ATOM	1095	CA	THR	71	-1.409	-22.525	23.190	1.00	0.00
ATOM	1099	C	THR	71	-2.103	-21.412	22.409	1.00	0.00
ATOM	1100	O	THR	71	-2.522	-20.409	22.990	1.00	0.00
ATOM	1096	CB	THR	71	-2.494	-23.506	23.687	1.00	0.00
ATOM	1097	CG1	THR	71	-2.764	-23.276	25.077	1.00	0.00
ATOM	1098	CG2	THR	71	-2.070	-24.953	23.471	1.00	0.00
ATOM	1101	H	THR	71	-0.830	-21.063	24.600	1.00	0.00
ATOM	1102	HA	THR	71	-0.736	-23.058	22.535	1.00	0.00
ATOM	1103	HB	THR	71	-3.399	-23.326	23.123	1.00	0.00
ATOM	1104	HG1	THR	71	-3.087	-24.092	25.482	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.096	-25.181	22.415	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.746	-25.609	23.997	1.00	0.00
ATOM	1107	3HG2	THR	71	-1.066	-25.094	23.845	1.00	0.00
ATOM	1108	N	PRO	72	-2.244	-21.572	21.083	1.00	0.00
ATOM	1109	CA	PRO	72	-2.904	-20.586	20.233	1.00	0.00
ATOM	1113	C	PRO	72	-4.425	-20.652	20.381	1.00	0.00
ATOM	1114	O	PRO	72	-4.956	-21.559	21.026	1.00	0.00
ATOM	1110	CB	PRO	72	-2.486	-20.986	18.807	1.00	0.00
ATOM	1111	CG	PRO	72	-1.503	-22.104	18.964	1.00	0.00
ATOM	1112	CD	PRO	72	-1.782	-22.723	20.302	1.00	0.00
ATOM	1115	HA	PRO	72	-2.563	-19.584	20.448	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.037	-20.136	18.312	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.358	-21.306	18.253	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.496	-21.712	18.935	1.00	0.00
ATOM	1119	2HG	PRO	72	-1.644	-22.831	18.178	1.00	0.00
ATOM	1120	1HD	PRO	72	-0.880	-23.141	20.724	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.552	-23.475	20.220	1.00	0.00
ATOM	1122	N	GLY	73	-5.128	-19.700	19.781	1.00	0.00



ATOM	1123	CA	GLY	73	-6.578	-19.694	19.865	1.00	0.00
ATOM	1124	C	GLY	73	-7.095	-18.776	20.954	1.00	0.00
ATOM	1125	O	GLY	73	-7.817	-17.818	20.673	1.00	0.00
ATOM	1126	H	GLY	73	-4.663	-19.002	19.274	1.00	0.00
ATOM	1127	1HA	GLY	73	-6.919	-20.698	20.067	1.00	0.00
ATOM	1128	2HA	GLY	73	-6.982	-19.372	18.917	1.00	0.00
ATOM	1129	N	SER	74	-6.717	-19.064	22.193	1.00	0.00
ATOM	1130	CA	SER	74	-7.132	-18.268	23.346	1.00	0.00
ATOM	1133	C	SER	74	-6.364	-16.948	23.403	1.00	0.00
ATOM	1134	O	SER	74	-5.792	-16.581	24.432	1.00	0.00
ATOM	1131	CB	SER	74	-6.897	-19.075	24.622	1.00	0.00
ATOM	1132	OG	SER	74	-6.367	-20.360	24.317	1.00	0.00
ATOM	1135	H	SER	74	-6.138	-19.841	22.346	1.00	0.00
ATOM	1136	HA	SER	74	-8.187	-18.051	23.250	1.00	0.00
ATOM	1137	1HB	SER	74	-7.832	-19.198	25.147	1.00	0.00
ATOM	1138	2HB	SER	74	-6.195	-18.549	25.252	1.00	0.00
ATOM	1139	HG	SER	74	-5.974	-20.738	25.111	1.00	0.00
ATOM	1140	N	ALA	75	-6.353	-16.243	22.285	1.00	0.00
ATOM	1141	CA	ALA	75	-5.661	-14.975	22.184	1.00	0.00
ATOM	1143	C	ALA	75	-6.644	-13.816	22.177	1.00	0.00
ATOM	1144	O	ALA	75	-6.278	-12.684	22.492	1.00	0.00
ATOM	1142	CB	ALA	75	-4.797	-14.945	20.933	1.00	0.00
ATOM	1145	H	ALA	75	-6.825	-16.598	21.498	1.00	0.00
ATOM	1146	HA	ALA	75	-5.016	-14.877	23.037	1.00	0.00
ATOM	1147	1HB	ALA	75	-3.770	-14.753	21.209	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.144	-14.162	20.274	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.863	-15.897	20.427	1.00	0.00
ATOM	1150	N	GLN	76	-7.893	-14.093	21.808	1.00	0.00
ATOM	1151	CA	GLN	76	-8.905	-13.045	21.753	1.00	0.00
ATOM	1157	C	GLN	76	-9.182	-12.469	23.124	1.00	0.00
ATOM	1158	O	GLN	76	-9.330	-11.260	23.260	1.00	0.00
ATOM	1152	CB	GLN	76	-10.202	-13.520	21.085	1.00	0.00
ATOM	1153	CG	GLN	76	-10.662	-14.904	21.489	1.00	0.00
ATOM	1154	CD	GLN	76	-11.953	-15.311	20.801	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.777	-16.020	21.373	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.135	-14.862	19.568	1.00	0.00
ATOM	1159	H	GLN	76	-8.132	-15.010	21.563	1.00	0.00
ATOM	1160	HA	GLN	76	-8.491	-12.252	21.146	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.058	-13.512	20.013	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.990	-12.825	21.333	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.819	-14.917	22.548	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.893	-15.615	21.229	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.439	-14.303	19.171	1.00	0.00
ATOM	1166	2HE2	GLN	76	-12.970	-15.106	19.102	1.00	0.00
ATOM	1167	N	GLN	77	-9.226	-13.317	24.143	1.00	0.00
ATOM	1168	CA	GLN	77	-9.468	-12.835	25.494	1.00	0.00
ATOM	1174	C	GLN	77	-8.342	-11.908	25.925	1.00	0.00
ATOM	1175	O	GLN	77	-8.590	-10.810	26.418	1.00	0.00
ATOM	1169	CB	GLN	77	-9.608	-13.998	26.476	1.00	0.00
ATOM	1170	CG	GLN	77	-10.695	-14.986	26.091	1.00	0.00
ATOM	1171	CD	GLN	77	-10.135	-16.244	25.461	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.376	-16.183	24.490	1.00	0.00
ATOM	1173	NE2	GLN	77	-10.504	-17.388	26.011	1.00	0.00
ATOM	1176	H	GLN	77	-9.082	-14.282	23.985	1.00	0.00
ATOM	1177	HA	GLN	77	-10.388	-12.266	25.479	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.840	-13.604	27.454	1.00	0.00
ATOM	1179	2HB	GLN	77	-8.669	-14.527	26.523	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.362	-14.513	25.386	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.244	-15.261	26.979	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.108	-17.355	26.781	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.156	-18.227	25.627	1.00	0.00
ATOM	1184	N	ARG	78	-7.108	-12.346	25.706	1.00	0.00
ATOM	1185	CA	ARG	78	-5.939	-11.548	26.047	1.00	0.00
ATOM	1193	C	ARG	78	-5.980	-10.212	25.318	1.00	0.00
ATOM	1194	O	ARG	78	-5.781	-9.156	25.923	1.00	0.00
ATOM	1186	CB	ARG	78	-4.657	-12.297	25.677	1.00	0.00
ATOM	1187	CG	ARG	78	-3.874	-12.806	26.873	1.00	0.00
ATOM	1188	CD	ARG	78	-3.229	-14.149	26.576	1.00	0.00
ATOM	1189	NE	ARG	78	-3.736	-15.203	27.451	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.539	-16.506	27.252	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.839	-16.930	26.203	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.044	-17.381	28.106	1.00	0.00
ATOM	1195	H	ARG	78	-6.983	-13.219	25.288	1.00	0.00



ATOM	1196	HA	ARG	78	-5.956	-11.367	27.111	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.018	-11.634	25.111	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.916	-13.144	25.059	1.00	0.00
ATOM	1199	1HG	ARG	78	-4.545	-12.916	27.713	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.101	-12.092	27.117	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.162	-14.062	26.713	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.439	-14.415	25.551	1.00	0.00
ATOM	1203	HE	ARG	78	-4.259	-14.918	28.244	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.454	-16.272	25.555	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.694	-17.910	26.055	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.578	-17.062	28.898	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.888	-18.366	27.982	1.00	0.00
ATOM	1208	N	PHE	79	-6.252	-10.269	24.019	1.00	0.00
ATOM	1209	CA	PHE	79	-6.330	-9.070	23.202	1.00	0.00
ATOM	1217	C	PHE	79	-7.430	-8.143	23.706	1.00	0.00
ATOM	1218	O	PHE	79	-7.198	-6.953	23.898	1.00	0.00
ATOM	1210	CB	PHE	79	-6.577	-9.427	21.737	1.00	0.00
ATOM	1211	CG	PHE	79	-6.030	-8.405	20.779	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.662	-8.213	20.657	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.881	-7.634	20.004	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.156	-7.271	19.782	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.381	-6.691	19.127	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.016	-6.510	19.015	1.00	0.00
ATOM	1219	H	PHE	79	-6.408	-11.144	23.599	1.00	0.00
ATOM	1220	HA	PHE	79	-5.382	-8.559	23.279	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.641	-9.508	21.567	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.109	-10.374	21.519	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.989	-8.810	21.255	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.949	-7.776	20.089	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.088	-7.131	19.698	1.00	0.00
ATOM	1226	HE2	PHE	79	-7.055	-6.097	18.529	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.622	-5.772	18.332	1.00	0.00
ATOM	1228	N	THR	80	-8.628	-8.686	23.912	1.00	0.00
ATOM	1229	CA	THR	80	-9.754	-7.882	24.387	1.00	0.00
ATOM	1233	C	THR	80	-9.473	-7.252	25.755	1.00	0.00
ATOM	1234	O	THR	80	-9.978	-6.174	26.059	1.00	0.00
ATOM	1230	CB	THR	80	-11.062	-8.694	24.466	1.00	0.00
ATOM	1231	OG1	THR	80	-10.844	-9.947	25.128	1.00	0.00
ATOM	1232	CG2	THR	80	-11.633	-8.939	23.077	1.00	0.00
ATOM	1235	H	THR	80	-8.763	-9.649	23.724	1.00	0.00
ATOM	1236	HA	THR	80	-9.901	-7.082	23.672	1.00	0.00
ATOM	1237	HB	THR	80	-11.779	-8.127	25.034	1.00	0.00
ATOM	1238	HG1	THR	80	-9.941	-9.981	25.469	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.099	-8.339	22.357	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.679	-8.670	23.065	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.527	-9.984	22.825	1.00	0.00
ATOM	1242	N	GLN	81	-8.662	-7.915	26.578	1.00	0.00
ATOM	1243	CA	GLN	81	-8.335	-7.382	27.896	1.00	0.00
ATOM	1249	C	GLN	81	-7.485	-6.131	27.770	1.00	0.00
ATOM	1250	O	GLN	81	-7.805	-5.090	28.335	1.00	0.00
ATOM	1244	CB	GLN	81	-7.592	-8.419	28.738	1.00	0.00
ATOM	1245	CG	GLN	81	-8.463	-9.582	29.160	1.00	0.00
ATOM	1246	CD	GLN	81	-9.203	-9.323	30.459	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.612	-9.350	31.538	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.500	-9.075	30.366	1.00	0.00
ATOM	1251	H	GLN	81	-8.272	-8.770	26.292	1.00	0.00
ATOM	1252	HA	GLN	81	-9.260	-7.125	28.388	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.212	-7.940	29.629	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.762	-8.806	28.166	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.841	-10.457	29.284	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.182	-9.761	28.379	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.911	-9.073	29.475	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.003	-8.902	31.196	1.00	0.00
ATOM	1259	N	VAL	82	-6.395	-6.246	27.031	1.00	0.00
ATOM	1260	CA	VAL	82	-5.490	-5.120	26.847	1.00	0.00
ATOM	1264	C	VAL	82	-6.142	-3.981	26.068	1.00	0.00
ATOM	1265	O	VAL	82	-5.838	-2.821	26.312	1.00	0.00
ATOM	1261	CB	VAL	82	-4.173	-5.532	26.155	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.435	-6.554	26.998	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.414	-6.071	24.754	1.00	0.00
ATOM	1266	H	VAL	82	-6.190	-7.111	26.610	1.00	0.00
ATOM	1267	HA	VAL	82	-5.237	-4.749	27.836	1.00	0.00
ATOM	1268	HB	VAL	82	-3.550	-4.655	26.075	1.00	0.00



ATOM	1269	1HG1	VAL	82	-2.738	-7.096	26.376	1.00	0.00
ATOM	1270	2HG1	VAL	82	-4.146	-7.244	27.428	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.899	-6.050	27.787	1.00	0.00
ATOM	1272	1HG2	VAL	82	-5.152	-5.460	24.256	1.00	0.00
ATOM	1273	2HG2	VAL	82	-4.772	-7.089	24.817	1.00	0.00
ATOM	1274	3HG2	VAL	82	-3.491	-6.048	24.195	1.00	0.00
ATOM	1275	N	SER	83	-7.044	-4.301	25.141	1.00	0.00
ATOM	1276	CA	SER	83	-7.711	-3.261	24.361	1.00	0.00
ATOM	1279	C	SER	83	-8.653	-2.467	25.255	1.00	0.00
ATOM	1280	O	SER	83	-8.737	-1.244	25.151	1.00	0.00
ATOM	1277	CB	SER	83	-8.474	-3.854	23.170	1.00	0.00
ATOM	1278	OG	SER	83	-8.980	-5.139	23.465	1.00	0.00
ATOM	1281	H	SER	83	-7.267	-5.243	24.985	1.00	0.00
ATOM	1282	HA	SER	83	-6.948	-2.593	23.990	1.00	0.00
ATOM	1283	1HB	SER	83	-7.808	-3.932	22.322	1.00	0.00
ATOM	1284	2HB	SER	83	-9.301	-3.209	22.917	1.00	0.00
ATOM	1285	HG	SER	83	-8.266	-5.787	23.408	1.00	0.00
ATOM	1286	N	ASP	84	-9.340	-3.175	26.145	1.00	0.00
ATOM	1287	CA	ASP	84	-10.268	-2.548	27.077	1.00	0.00
ATOM	1292	C	ASP	84	-9.517	-1.628	28.029	1.00	0.00
ATOM	1293	O	ASP	84	-9.918	-0.489	28.257	1.00	0.00
ATOM	1288	CB	ASP	84	-11.028	-3.613	27.871	1.00	0.00
ATOM	1289	CG	ASP	84	-12.522	-3.588	27.607	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.953	-2.944	26.626	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.271	-4.226	28.379	1.00	0.00
ATOM	1294	H	ASP	84	-9.215	-4.148	26.180	1.00	0.00
ATOM	1295	HA	ASP	84	-10.972	-1.961	26.505	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.865	-3.449	28.925	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.654	-4.588	27.600	1.00	0.00
ATOM	1298	N	GLU	85	-8.412	-2.127	28.576	1.00	0.00
ATOM	1299	CA	GLU	85	-7.596	-1.346	29.501	1.00	0.00
ATOM	1305	C	GLU	85	-6.901	-0.194	28.773	1.00	0.00
ATOM	1306	O	GLU	85	-6.569	0.822	29.376	1.00	0.00
ATOM	1300	CB	GLU	85	-6.563	-2.240	30.192	1.00	0.00
ATOM	1301	CG	GLU	85	-7.177	-3.396	30.969	1.00	0.00
ATOM	1302	CD	GLU	85	-7.622	-3.006	32.367	1.00	0.00
ATOM	1303	OE1	GLU	85	-8.191	-1.907	32.534	1.00	0.00
ATOM	1304	OE2	GLU	85	-7.408	-3.803	33.306	1.00	0.00
ATOM	1307	H	GLU	85	-8.138	-3.043	28.351	1.00	0.00
ATOM	1308	HA	GLU	85	-8.255	-0.932	30.250	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.987	-1.638	30.880	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.900	-2.649	29.444	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.444	-4.186	31.048	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.037	-3.759	30.425	1.00	0.00
ATOM	1313	N	LEU	86	-6.695	-0.352	27.469	1.00	0.00
ATOM	1314	CA	LEU	86	-6.056	0.685	26.662	1.00	0.00
ATOM	1319	C	LEU	86	-7.071	1.772	26.311	1.00	0.00
ATOM	1320	O	LEU	86	-6.713	2.924	26.075	1.00	0.00
ATOM	1315	CB	LEU	86	-5.466	0.087	25.378	1.00	0.00
ATOM	1316	CG	LEU	86	-3.937	0.134	25.270	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.340	-1.249	25.475	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.512	0.691	23.920	1.00	0.00
ATOM	1321	H	LEU	86	-6.990	-1.182	27.037	1.00	0.00
ATOM	1322	HA	LEU	86	-5.262	1.122	27.249	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.878	0.622	24.536	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.777	-0.945	25.313	1.00	0.00
ATOM	1325	HG	LEU	86	-3.545	0.784	26.040	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.986	-1.342	26.492	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.516	-1.391	24.793	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.095	-1.998	25.288	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.757	1.742	23.872	1.00	0.00
ATOM	1330	2HD2	LEU	86	-4.030	0.162	23.134	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.445	0.564	23.800	1.00	0.00
ATOM	1332	N	PHE	87	-8.340	1.387	26.281	1.00	0.00
ATOM	1333	CA	PHE	87	-9.424	2.309	25.963	1.00	0.00
ATOM	1341	C	PHE	87	-10.071	2.831	27.243	1.00	0.00
ATOM	1342	O	PHE	87	-10.963	3.677	27.194	1.00	0.00
ATOM	1334	CB	PHE	87	-10.469	1.603	25.087	1.00	0.00
ATOM	1335	CG	PHE	87	-11.510	2.523	24.507	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.208	3.350	23.438	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.792	2.561	25.035	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.161	4.199	22.908	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.748	3.408	24.509	1.00	0.00



ATOM	1340	CZ	PHE	87	-13.432	4.229	23.445	1.00	0.00
ATOM	1343	H	PHE	87	-8.559	0.450	26.477	1.00	0.00
ATOM	1344	HA	PHE	87	-9.007	3.142	25.415	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.979	0.857	25.680	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.967	1.118	24.265	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.212	3.329	23.018	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.041	1.920	25.868	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.911	4.839	22.075	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.742	3.429	24.931	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.179	4.891	23.032	1.00	0.00
ATOM	1352	N	GLN	88	-9.611	2.304	28.379	1.00	0.00
ATOM	1353	CA	GLN	88	-10.120	2.668	29.706	1.00	0.00
ATOM	1359	C	GLN	88	-10.421	4.161	29.824	1.00	0.00
ATOM	1360	O	GLN	88	-11.512	4.547	30.251	1.00	0.00
ATOM	1354	CB	GLN	88	-9.114	2.253	30.781	1.00	0.00
ATOM	1355	CG	GLN	88	-9.730	2.068	32.156	1.00	0.00
ATOM	1356	CD	GLN	88	-9.365	3.183	33.116	1.00	0.00
ATOM	1357	OE1	GLN	88	-8.626	4.104	32.771	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.885	3.108	34.329	1.00	0.00
ATOM	1361	H	GLN	88	-8.905	1.625	28.323	1.00	0.00
ATOM	1362	HA	GLN	88	-11.037	2.123	29.864	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.348	3.013	30.852	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.656	1.320	30.487	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.384	1.131	32.568	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.805	2.039	32.054	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.469	2.344	34.540	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.665	3.816	34.970	1.00	0.00
ATOM	1369	N	GLY	89	-9.464	4.996	29.444	1.00	0.00
ATOM	1370	CA	GLY	89	-9.674	6.424	29.522	1.00	0.00
ATOM	1371	C	GLY	89	-8.548	7.219	28.901	1.00	0.00
ATOM	1372	O	GLY	89	-8.046	8.166	29.506	1.00	0.00
ATOM	1373	H	GLY	89	-8.616	4.640	29.111	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.768	6.705	30.561	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.594	6.668	29.012	1.00	0.00
ATOM	1376	N	GLY	90	-8.154	6.856	27.686	1.00	0.00
ATOM	1377	CA	GLY	90	-7.091	7.586	27.027	1.00	0.00
ATOM	1378	C	GLY	90	-6.645	6.981	25.706	1.00	0.00
ATOM	1379	O	GLY	90	-5.459	6.704	25.532	1.00	0.00
ATOM	1380	H	GLY	90	-8.594	6.106	27.233	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.241	7.626	27.692	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.431	8.593	26.843	1.00	0.00
ATOM	1383	N	PRO	91	-7.557	6.793	24.728	1.00	0.00
ATOM	1384	CA	PRO	91	-7.195	6.250	23.417	1.00	0.00
ATOM	1388	C	PRO	91	-6.534	7.301	22.531	1.00	0.00
ATOM	1389	O	PRO	91	-6.878	7.451	21.361	1.00	0.00
ATOM	1385	CB	PRO	91	-8.527	5.826	22.803	1.00	0.00
ATOM	1386	CG	PRO	91	-9.604	6.494	23.586	1.00	0.00
ATOM	1387	CD	PRO	91	-8.989	7.121	24.814	1.00	0.00
ATOM	1390	HA	PRO	91	-6.544	5.392	23.508	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.615	4.753	22.846	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.557	6.156	21.775	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.355	5.769	23.865	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.051	7.256	22.976	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.426	6.697	25.706	1.00	0.00
ATOM	1396	2HD	PRO	91	-9.134	8.191	24.798	1.00	0.00
ATOM	1397	N	ASN	92	-5.597	8.034	23.107	1.00	0.00
ATOM	1398	CA	ASN	92	-4.892	9.091	22.398	1.00	0.00
ATOM	1403	C	ASN	92	-3.960	8.528	21.337	1.00	0.00
ATOM	1404	O	ASN	92	-3.632	7.343	21.360	1.00	0.00
ATOM	1399	CB	ASN	92	-4.114	9.950	23.388	1.00	0.00
ATOM	1400	CG	ASN	92	-4.411	11.427	23.225	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.266	11.981	22.138	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.819	12.075	24.305	1.00	0.00
ATOM	1405	H	ASN	92	-5.380	7.862	24.047	1.00	0.00
ATOM	1406	HA	ASN	92	-5.633	9.707	21.913	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.056	9.794	23.236	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.376	9.658	24.395	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.908	11.574	25.142	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.012	13.036	24.226	1.00	0.00
ATOM	1411	N	TRP	93	-3.541	9.387	20.407	1.00	0.00
ATOM	1412	CA	TRP	93	-2.649	8.989	19.316	1.00	0.00
ATOM	1423	C	TRP	93	-1.383	8.315	19.841	1.00	0.00
ATOM	1424	O	TRP	93	-0.810	7.461	19.168	1.00	0.00



ATOM	1413	CB	TRP	93	-2.273	10.195	18.446	1.00	0.00
ATOM	1414	CG	TRP	93	-3.404	11.154	18.206	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.537	12.405	18.739	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.556	10.952	17.372	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.693	12.989	18.288	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.335	12.122	17.453	1.00	0.00
ATOM	1419	CE3	TRP	93	-5.010	9.903	16.563	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.535	12.271	16.765	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.206	10.057	15.879	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.952	11.233	15.986	1.00	0.00
ATOM	1425	H	TRP	93	-3.848	10.319	20.450	1.00	0.00
ATOM	1426	HA	TRP	93	-3.182	8.276	18.704	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.926	9.839	17.485	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.476	10.741	18.928	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.826	12.857	19.414	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.013	13.899	18.523	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.447	8.988	16.466	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.127	13.172	16.835	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.576	9.263	15.247	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.879	11.308	15.435	1.00	0.00
ATOM	1435	N	GLY	94	-0.962	8.681	21.052	1.00	0.00
ATOM	1436	CA	GLY	94	0.218	8.078	21.636	1.00	0.00
ATOM	1437	C	GLY	94	0.016	6.596	21.872	1.00	0.00
ATOM	1438	O	GLY	94	0.903	5.782	21.619	1.00	0.00
ATOM	1439	H	GLY	94	-1.466	9.354	21.559	1.00	0.00
ATOM	1440	1HA	GLY	94	0.431	8.558	22.580	1.00	0.00
ATOM	1441	2HA	GLY	94	1.054	8.224	20.969	1.00	0.00
ATOM	1442	N	ARG	95	-1.173	6.241	22.339	1.00	0.00
ATOM	1443	CA	ARG	95	-1.510	4.852	22.588	1.00	0.00
ATOM	1451	C	ARG	95	-2.039	4.194	21.319	1.00	0.00
ATOM	1452	O	ARG	95	-1.999	2.971	21.188	1.00	0.00
ATOM	1444	CB	ARG	95	-2.533	4.738	23.719	1.00	0.00
ATOM	1445	CG	ARG	95	-1.900	4.655	25.098	1.00	0.00
ATOM	1446	CD	ARG	95	-1.859	3.224	25.609	1.00	0.00
ATOM	1447	NE	ARG	95	-1.130	3.105	26.874	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.652	1.952	27.352	1.00	0.00
ATOM	1449	NH1	ARG	95	-0.850	0.821	26.684	1.00	0.00
ATOM	1450	NH2	ARG	95	0.013	1.930	28.502	1.00	0.00
ATOM	1453	H	ARG	95	-1.847	6.934	22.503	1.00	0.00
ATOM	1454	HA	ARG	95	-0.604	4.344	22.879	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.128	3.850	23.564	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.180	5.603	23.694	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.476	5.257	25.786	1.00	0.00
ATOM	1458	2HG	ARG	95	-0.891	5.034	25.043	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.377	2.605	24.866	1.00	0.00
ATOM	1460	2HD	ARG	95	-2.873	2.881	25.757	1.00	0.00
ATOM	1461	HE	ARG	95	-0.994	3.930	27.391	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.358	0.830	25.821	1.00	0.00
ATOM	1463	2HH1	ARG	95	-0.496	-0.046	27.041	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.164	2.780	29.021	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.359	1.063	28.867	1.00	0.00
ATOM	1466	N	LEU	96	-2.521	5.017	20.387	1.00	0.00
ATOM	1467	CA	LEU	96	-3.051	4.534	19.111	1.00	0.00
ATOM	1472	C	LEU	96	-1.989	3.730	18.373	1.00	0.00
ATOM	1473	O	LEU	96	-2.293	2.780	17.645	1.00	0.00
ATOM	1468	CB	LEU	96	-3.509	5.710	18.241	1.00	0.00
ATOM	1469	CG	LEU	96	-4.912	5.593	17.628	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.914	6.147	16.215	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.399	4.151	17.626	1.00	0.00
ATOM	1474	H	LEU	96	-2.515	5.985	20.560	1.00	0.00
ATOM	1475	HA	LEU	96	-3.896	3.894	19.319	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.800	5.826	17.434	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.481	6.605	18.846	1.00	0.00
ATOM	1478	HG	LEU	96	-5.603	6.180	18.217	1.00	0.00
ATOM	1479	1HD1	LEU	96	-4.846	5.330	15.510	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.069	6.806	16.085	1.00	0.00
ATOM	1481	3HD1	LEU	96	-5.828	6.694	16.043	1.00	0.00
ATOM	1482	1HD2	LEU	96	-4.555	3.486	17.722	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.915	3.947	16.698	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.075	3.998	18.455	1.00	0.00
ATOM	1485	N	VAL	97	-0.738	4.102	18.598	1.00	0.00
ATOM	1486	CA	VAL	97	0.381	3.410	17.990	1.00	0.00
ATOM	1490	C	VAL	97	0.413	1.972	18.479	1.00	0.00



ATOM	1491	O	VAL	97	0.392	1.031	17.687	1.00	0.00
ATOM	1487	CB	VAL	97	1.717	4.067	18.350	1.00	0.00
ATOM	1488	CG1	VAL	97	2.800	3.525	17.448	1.00	0.00
ATOM	1489	CG2	VAL	97	1.631	5.581	18.247	1.00	0.00
ATOM	1492	H	VAL	97	-0.566	4.851	19.212	1.00	0.00
ATOM	1493	HA	VAL	97	0.267	3.431	16.910	1.00	0.00
ATOM	1494	HB	VAL	97	1.962	3.807	19.369	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.583	3.793	16.424	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.839	2.449	17.539	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.752	3.946	17.735	1.00	0.00
ATOM	1498	1HG2	VAL	97	2.456	6.026	18.785	1.00	0.00
ATOM	1499	2HG2	VAL	97	0.699	5.920	18.676	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.678	5.876	17.209	1.00	0.00
ATOM	1501	N	ALA	98	0.444	1.824	19.801	1.00	0.00
ATOM	1502	CA	ALA	98	0.466	0.515	20.440	1.00	0.00
ATOM	1504	C	ALA	98	-0.789	-0.281	20.101	1.00	0.00
ATOM	1505	O	ALA	98	-0.753	-1.505	20.056	1.00	0.00
ATOM	1503	CB	ALA	98	0.607	0.667	21.946	1.00	0.00
ATOM	1506	H	ALA	98	0.443	2.624	20.363	1.00	0.00
ATOM	1507	HA	ALA	98	1.330	-0.021	20.073	1.00	0.00
ATOM	1508	1HB	ALA	98	0.755	-0.305	22.395	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.288	1.116	22.349	1.00	0.00
ATOM	1510	3HB	ALA	98	1.456	1.297	22.166	1.00	0.00
ATOM	1511	N	PHE	99	-1.887	0.427	19.855	1.00	0.00
ATOM	1512	CA	PHE	99	-3.153	-0.204	19.506	1.00	0.00
ATOM	1520	C	PHE	99	-2.975	-1.091	18.280	1.00	0.00
ATOM	1521	O	PHE	99	-3.308	-2.278	18.298	1.00	0.00
ATOM	1513	CB	PHE	99	-4.208	0.869	19.198	1.00	0.00
ATOM	1514	CG	PHE	99	-5.125	1.246	20.335	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.010	0.332	20.887	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.124	2.543	20.823	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.873	0.711	21.905	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.975	2.925	21.840	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.853	2.011	22.382	1.00	0.00
ATOM	1522	H	PHE	99	-1.844	1.406	19.902	1.00	0.00
ATOM	1523	HA	PHE	99	-3.471	-0.811	20.334	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.820	0.525	18.379	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.699	1.768	18.889	1.00	0.00
ATOM	1526	HD1	PHE	99	-6.024	-0.684	20.518	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.437	3.263	20.402	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.559	-0.009	22.328	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.956	3.940	22.208	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.530	2.316	23.172	1.00	0.00
ATOM	1531	N	PHE	100	-2.448	-0.504	17.216	1.00	0.00
ATOM	1532	CA	PHE	100	-2.227	-1.236	15.979	1.00	0.00
ATOM	1540	C	PHE	100	-0.968	-2.088	16.066	1.00	0.00
ATOM	1541	O	PHE	100	-0.919	-3.194	15.527	1.00	0.00
ATOM	1533	CB	PHE	100	-2.129	-0.272	14.801	1.00	0.00
ATOM	1534	CG	PHE	100	-3.436	-0.062	14.097	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.392	0.784	14.631	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.711	-0.709	12.903	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.597	0.983	13.988	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.917	-0.514	12.256	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.861	0.335	12.801	1.00	0.00
ATOM	1542	H	PHE	100	-2.204	0.450	17.264	1.00	0.00
ATOM	1543	HA	PHE	100	-3.074	-1.889	15.827	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.421	-0.662	14.083	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.783	0.687	15.156	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.973	-1.373	12.477	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.189	1.294	15.562	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.121	-1.023	11.325	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.334	1.647	14.416	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.804	0.491	12.300	1.00	0.00
ATOM	1551	N	VAL	101	0.048	-1.567	16.745	1.00	0.00
ATOM	1552	CA	VAL	101	1.312	-2.275	16.901	1.00	0.00
ATOM	1556	C	VAL	101	1.111	-3.613	17.613	1.00	0.00
ATOM	1557	O	VAL	101	1.749	-4.605	17.257	1.00	0.00
ATOM	1553	CB	VAL	101	2.355	-1.415	17.667	1.00	0.00
ATOM	1554	CG1	VAL	101	3.419	-2.277	18.334	1.00	0.00
ATOM	1555	CG2	VAL	101	3.009	-0.412	16.726	1.00	0.00
ATOM	1558	H	VAL	101	-0.055	-0.676	17.152	1.00	0.00
ATOM	1559	HA	VAL	101	1.701	-2.470	15.911	1.00	0.00
ATOM	1560	HB	VAL	101	1.837	-0.863	18.436	1.00	0.00



ATOM	1561	1HG1	VAL	101	3.352	-2.164	19.406	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.397	-1.964	18.000	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.262	-3.312	18.069	1.00	0.00
ATOM	1564	1HG2	VAL	101	3.095	-0.845	15.740	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.992	-0.161	17.096	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.405	0.481	16.675	1.00	0.00
ATOM	1567	N	PHE	102	0.224	-3.644	18.608	1.00	0.00
ATOM	1568	CA	PHE	102	-0.031	-4.873	19.352	1.00	0.00
ATOM	1576	C	PHE	102	-0.476	-6.003	18.433	1.00	0.00
ATOM	1577	O	PHE	102	0.065	-7.107	18.487	1.00	0.00
ATOM	1569	CB	PHE	102	-1.087	-4.636	20.434	1.00	0.00
ATOM	1570	CG	PHE	102	-0.512	-4.366	21.796	1.00	0.00
ATOM	1571	CD1	PHE	102	0.851	-4.479	22.030	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.339	-3.997	22.845	1.00	0.00
ATOM	1573	CE1	PHE	102	1.375	-4.229	23.282	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.818	-3.746	24.100	1.00	0.00
ATOM	1575	CZ	PHE	102	0.541	-3.863	24.319	1.00	0.00
ATOM	1578	H	PHE	102	-0.271	-2.817	18.855	1.00	0.00
ATOM	1579	HA	PHE	102	0.894	-5.164	19.826	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.717	-5.510	20.506	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.692	-3.786	20.155	1.00	0.00
ATOM	1582	HD1	PHE	102	1.505	-4.765	21.219	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.402	-3.906	22.676	1.00	0.00
ATOM	1584	HE1	PHE	102	2.439	-4.321	23.451	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.474	-3.461	24.909	1.00	0.00
ATOM	1586	HZ	PHE	102	0.949	-3.667	25.300	1.00	0.00
ATOM	1587	N	GLY	103	-1.460	-5.728	17.589	1.00	0.00
ATOM	1588	CA	GLY	103	-1.953	-6.745	16.683	1.00	0.00
ATOM	1589	C	GLY	103	-1.040	-6.985	15.500	1.00	0.00
ATOM	1590	O	GLY	103	-0.883	-8.121	15.068	1.00	0.00
ATOM	1591	H	GLY	103	-1.856	-4.832	17.588	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.921	-6.452	16.320	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.058	-7.670	17.229	1.00	0.00
ATOM	1594	N	ALA	104	-0.437	-5.925	14.972	1.00	0.00
ATOM	1595	CA	ALA	104	0.462	-6.052	13.829	1.00	0.00
ATOM	1597	C	ALA	104	1.659	-6.927	14.179	1.00	0.00
ATOM	1598	O	ALA	104	2.049	-7.799	13.404	1.00	0.00
ATOM	1596	CB	ALA	104	0.926	-4.682	13.354	1.00	0.00
ATOM	1599	H	ALA	104	-0.601	-5.036	15.358	1.00	0.00
ATOM	1600	HA	ALA	104	-0.087	-6.524	13.022	1.00	0.00
ATOM	1601	1HB	ALA	104	0.184	-4.261	12.691	1.00	0.00
ATOM	1602	2HB	ALA	104	1.865	-4.781	12.829	1.00	0.00
ATOM	1603	3HB	ALA	104	1.057	-4.032	14.207	1.00	0.00
ATOM	1604	N	ALA	105	2.224	-6.710	15.359	1.00	0.00
ATOM	1605	CA	ALA	105	3.356	-7.505	15.803	1.00	0.00
ATOM	1607	C	ALA	105	2.900	-8.931	16.089	1.00	0.00
ATOM	1608	O	ALA	105	3.596	-9.896	15.773	1.00	0.00
ATOM	1606	CB	ALA	105	3.997	-6.881	17.034	1.00	0.00
ATOM	1609	H	ALA	105	1.860	-6.010	15.953	1.00	0.00
ATOM	1610	HA	ALA	105	4.088	-7.521	15.007	1.00	0.00
ATOM	1611	1HB	ALA	105	3.238	-6.693	17.777	1.00	0.00
ATOM	1612	2HB	ALA	105	4.472	-5.951	16.760	1.00	0.00
ATOM	1613	3HB	ALA	105	4.735	-7.558	17.436	1.00	0.00
ATOM	1614	N	LEU	106	1.709	-9.043	16.670	1.00	0.00
ATOM	1615	CA	LEU	106	1.117	-10.336	16.997	1.00	0.00
ATOM	1620	C	LEU	106	0.930	-11.165	15.735	1.00	0.00
ATOM	1621	O	LEU	106	1.245	-12.354	15.695	1.00	0.00
ATOM	1616	CB	LEU	106	-0.234	-10.114	17.687	1.00	0.00
ATOM	1617	CG	LEU	106	-0.496	-10.975	18.921	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.893	-10.095	20.095	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.580	-12.002	18.638	1.00	0.00
ATOM	1622	H	LEU	106	1.202	-8.227	16.878	1.00	0.00
ATOM	1623	HA	LEU	106	1.785	-10.854	17.665	1.00	0.00
ATOM	1624	1HB	LEU	106	-1.020	-10.298	16.969	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.286	-9.077	17.985	1.00	0.00
ATOM	1626	HG	LEU	106	0.409	-11.501	19.188	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.880	-10.371	20.435	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.895	-9.060	19.786	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.185	-10.227	20.901	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.857	-11.954	17.595	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.446	-11.790	19.250	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.210	-12.990	18.867	1.00	0.00
ATOM	1633	N	CYS	107	0.418	-10.511	14.710	1.00	0.00



ATOM	1634	CA	CYS	107	0.169	-11.138	13.424	1.00	0.00
ATOM	1637	C	CYS	107	1.470	-11.595	12.773	1.00	0.00
ATOM	1638	O	CYS	107	1.530	-12.679	12.198	1.00	0.00
ATOM	1635	CB	CYS	107	-0.572	-10.155	12.517	1.00	0.00
ATOM	1636	SG	CYS	107	-2.256	-9.789	13.055	1.00	0.00
ATOM	1639	H	CYS	107	0.196	-9.563	14.824	1.00	0.00
ATOM	1640	HA	CYS	107	-0.453	-12.002	13.588	1.00	0.00
ATOM	1641	IHB	CYS	107	-0.623	-10.557	11.520	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.028	-9.222	12.493	1.00	0.00
ATOM	1643	HG	CYS	107	-2.178	-9.009	14.126	1.00	0.00
ATOM	1644	N	ALA	108	2.505	-10.769	12.872	1.00	0.00
ATOM	1645	CA	ALA	108	3.805	-11.090	12.294	1.00	0.00
ATOM	1647	C	ALA	108	4.323	-12.433	12.801	1.00	0.00
ATOM	1648	O	ALA	108	4.641	-13.322	12.010	1.00	0.00
ATOM	1646	CB	ALA	108	4.806	-9.984	12.596	1.00	0.00
ATOM	1649	H	ALA	108	2.390	-9.919	13.347	1.00	0.00
ATOM	1650	HA	ALA	108	3.684	-11.149	11.222	1.00	0.00
ATOM	1651	IHB	ALA	108	5.417	-10.272	13.438	1.00	0.00
ATOM	1652	2HB	ALA	108	4.274	-9.073	12.831	1.00	0.00
ATOM	1653	3HB	ALA	108	5.434	-9.822	11.733	1.00	0.00
ATOM	1654	N	GLU	109	4.400	-12.587	14.119	1.00	0.00
ATOM	1655	CA	GLU	109	4.881	-13.834	14.705	1.00	0.00
ATOM	1661	C	GLU	109	3.890	-14.976	14.484	1.00	0.00
ATOM	1662	O	GLU	109	4.257	-16.146	14.587	1.00	0.00
ATOM	1656	CB	GLU	109	5.172	-13.673	16.199	1.00	0.00
ATOM	1657	CG	GLU	109	6.650	-13.460	16.499	1.00	0.00
ATOM	1658	CD	GLU	109	7.156	-14.325	17.638	1.00	0.00
ATOM	1659	OE1	GLU	109	6.486	-15.320	17.981	1.00	0.00
ATOM	1660	OE2	GLU	109	8.251	-14.036	18.170	1.00	0.00
ATOM	1663	H	GLU	109	4.130	-11.850	14.706	1.00	0.00
ATOM	1664	HA	GLU	109	5.804	-14.087	14.204	1.00	0.00
ATOM	1665	IHB	GLU	109	4.845	-14.562	16.717	1.00	0.00
ATOM	1666	2HB	GLU	109	4.621	-12.823	16.574	1.00	0.00
ATOM	1667	1HG	GLU	109	6.804	-12.424	16.758	1.00	0.00
ATOM	1668	2HG	GLU	109	7.219	-13.695	15.613	1.00	0.00
ATOM	1669	N	SER	110	2.643	-14.647	14.155	1.00	0.00
ATOM	1670	CA	SER	110	1.636	-15.672	13.910	1.00	0.00
ATOM	1673	C	SER	110	1.829	-16.275	12.520	1.00	0.00
ATOM	1674	O	SER	110	1.570	-17.458	12.306	1.00	0.00
ATOM	1671	CB	SER	110	0.228	-15.094	14.058	1.00	0.00
ATOM	1672	OG	SER	110	-0.024	-14.705	15.398	1.00	0.00
ATOM	1675	H	SER	110	2.397	-13.698	14.070	1.00	0.00
ATOM	1676	HA	SER	110	1.774	-16.451	14.646	1.00	0.00
ATOM	1677	IHB	SER	110	-0.497	-15.841	13.770	1.00	0.00
ATOM	1678	2HB	SER	110	0.126	-14.229	13.419	1.00	0.00
ATOM	1679	HG	SER	110	0.500	-13.921	15.611	1.00	0.00
ATOM	1680	N	VAL	111	2.328	-15.466	11.587	1.00	0.00
ATOM	1681	CA	VAL	111	2.601	-15.940	10.231	1.00	0.00
ATOM	1685	C	VAL	111	3.941	-16.671	10.216	1.00	0.00
ATOM	1686	O	VAL	111	4.280	-17.387	9.276	1.00	0.00
ATOM	1682	CB	VAL	111	2.633	-14.785	9.199	1.00	0.00
ATOM	1683	CG1	VAL	111	2.665	-15.333	7.779	1.00	0.00
ATOM	1684	CG2	VAL	111	1.438	-13.863	9.376	1.00	0.00
ATOM	1687	H	VAL	111	2.544	-14.536	11.824	1.00	0.00
ATOM	1688	HA	VAL	111	1.817	-16.631	9.953	1.00	0.00
ATOM	1689	HB	VAL	111	3.535	-14.208	9.361	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.925	-16.381	7.805	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.402	-14.793	7.201	1.00	0.00
ATOM	1692	3HG1	VAL	111	1.693	-15.214	7.325	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.682	-12.880	9.000	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.187	-13.796	10.424	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.596	-14.259	8.828	1.00	0.00
ATOM	1696	N	ASN	112	4.695	-16.487	11.292	1.00	0.00
ATOM	1697	CA	ASN	112	5.996	-17.123	11.444	1.00	0.00
ATOM	1702	C	ASN	112	5.834	-18.526	12.014	1.00	0.00
ATOM	1703	O	ASN	112	6.815	-19.241	12.229	1.00	0.00
ATOM	1698	CB	ASN	112	6.886	-16.292	12.375	1.00	0.00
ATOM	1699	CG	ASN	112	7.716	-15.261	11.637	1.00	0.00
ATOM	1700	OD1	ASN	112	8.808	-15.558	11.154	1.00	0.00
ATOM	1701	ND2	ASN	112	7.204	-14.043	11.543	1.00	0.00
ATOM	1704	H	ASN	112	4.358	-15.914	12.010	1.00	0.00
ATOM	1705	HA	ASN	112	6.460	-17.186	10.471	1.00	0.00
ATOM	1706	IHB	ASN	112	7.557	-16.954	12.903	1.00	0.00



ATOM	1707	2HB	ASN	112	6.263	-15.776	13.090	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.322	-13.875	11.946	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.724	-13.352	11.084	1.00	0.00
ATOM	1710	N	LYS	113	4.587	-18.906	12.260	1.00	0.00
ATOM	1711	CA	LYS	113	4.259	-20.213	12.807	1.00	0.00
ATOM	1717	C	LYS	113	2.947	-20.703	12.204	1.00	0.00
ATOM	1718	O	LYS	113	2.420	-20.095	11.273	1.00	0.00
ATOM	1712	CB	LYS	113	4.133	-20.136	14.335	1.00	0.00
ATOM	1713	CG	LYS	113	5.463	-20.036	15.067	1.00	0.00
ATOM	1714	CD	LYS	113	5.466	-18.895	16.075	1.00	0.00
ATOM	1715	CE	LYS	113	6.846	-18.264	16.197	1.00	0.00
ATOM	1716	NZ	LYS	113	7.148	-17.835	17.587	1.00	0.00
ATOM	1719	H	LYS	113	3.856	-18.282	12.064	1.00	0.00
ATOM	1720	HA	LYS	113	5.051	-20.899	12.546	1.00	0.00
ATOM	1721	1HB	LYS	113	3.622	-21.020	14.685	1.00	0.00
ATOM	1722	2HB	LYS	113	3.543	-19.268	14.591	1.00	0.00
ATOM	1723	1HG	LYS	113	6.248	-19.868	14.344	1.00	0.00
ATOM	1724	2HG	LYS	113	5.645	-20.964	15.588	1.00	0.00
ATOM	1725	1HD	LYS	113	5.170	-19.281	17.040	1.00	0.00
ATOM	1726	2HD	LYS	113	4.764	-18.140	15.755	1.00	0.00
ATOM	1727	1HE	LYS	113	6.891	-17.403	15.546	1.00	0.00
ATOM	1728	2HE	LYS	113	7.586	-18.987	15.887	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.634	-16.950	17.812	1.00	0.00
ATOM	1730	2HZ	LYS	113	8.169	-17.659	17.693	1.00	0.00
ATOM	1731	3HZ	LYS	113	6.865	-18.573	18.264	1.00	0.00
ATOM	1732	N	GLU	114	2.412	-21.787	12.745	1.00	0.00
ATOM	1733	CA	GLU	114	1.153	-22.341	12.265	1.00	0.00
ATOM	1739	C	GLU	114	-0.021	-21.663	12.972	1.00	0.00
ATOM	1740	O	GLU	114	-0.859	-22.320	13.592	1.00	0.00
ATOM	1734	CB	GLU	114	1.127	-23.855	12.494	1.00	0.00
ATOM	1735	CG	GLU	114	2.396	-24.554	12.018	1.00	0.00
ATOM	1736	CD	GLU	114	2.394	-26.042	12.304	1.00	0.00
ATOM	1737	OE1	GLU	114	2.200	-26.427	13.475	1.00	0.00
ATOM	1738	OE2	GLU	114	2.603	-26.832	11.356	1.00	0.00
ATOM	1741	H	GLU	114	2.867	-22.222	13.494	1.00	0.00
ATOM	1742	HA	GLU	114	1.083	-22.142	11.206	1.00	0.00
ATOM	1743	1HB	GLU	114	0.287	-24.275	11.961	1.00	0.00
ATOM	1744	2HB	GLU	114	1.008	-24.047	13.551	1.00	0.00
ATOM	1745	1HG	GLU	114	3.244	-24.109	12.518	1.00	0.00
ATOM	1746	2HG	GLU	114	2.493	-24.410	10.954	1.00	0.00
ATOM	1747	N	MET	115	-0.065	-20.338	12.882	1.00	0.00
ATOM	1748	CA	MET	115	-1.120	-19.556	13.518	1.00	0.00
ATOM	1753	C	MET	115	-1.738	-18.582	12.521	1.00	0.00
ATOM	1754	O	MET	115	-2.210	-17.510	12.899	1.00	0.00
ATOM	1749	CB	MET	115	-0.559	-18.784	14.716	1.00	0.00
ATOM	1750	CG	MET	115	-0.495	-19.600	15.998	1.00	0.00
ATOM	1751	SD	MET	115	1.086	-20.445	16.205	1.00	0.00
ATOM	1752	CE	MET	115	1.726	-19.625	17.663	1.00	0.00
ATOM	1755	H	MET	115	0.641	-19.868	12.381	1.00	0.00
ATOM	1756	HA	MET	115	-1.882	-20.239	13.861	1.00	0.00
ATOM	1757	1HB	MET	115	-1.184	-17.921	14.895	1.00	0.00
ATOM	1758	2HB	MET	115	0.440	-18.449	14.478	1.00	0.00
ATOM	1759	1HG	MET	115	-1.282	-20.339	15.979	1.00	0.00
ATOM	1760	2HG	MET	115	-0.645	-18.938	16.839	1.00	0.00
ATOM	1761	1HE	MET	115	2.807	-19.643	17.642	1.00	0.00
ATOM	1762	2HE	MET	115	1.376	-20.137	18.547	1.00	0.00
ATOM	1763	3HE	MET	115	1.385	-18.602	17.680	1.00	0.00
ATOM	1764	N	GLU	116	-1.728	-18.965	11.249	1.00	0.00
ATOM	1765	CA	GLU	116	-2.279	-18.130	10.177	1.00	0.00
ATOM	1771	C	GLU	116	-3.729	-17.695	10.451	1.00	0.00
ATOM	1772	O	GLU	116	-4.038	-16.507	10.358	1.00	0.00
ATOM	1766	CB	GLU	116	-2.196	-18.842	8.820	1.00	0.00
ATOM	1767	CG	GLU	116	-1.205	-19.995	8.778	1.00	0.00
ATOM	1768	CD	GLU	116	-1.701	-21.155	7.938	1.00	0.00
ATOM	1769	OE1	GLU	116	-2.576	-20.938	7.071	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.227	-22.287	8.145	1.00	0.00
ATOM	1773	H	GLU	116	-1.332	-19.831	11.019	1.00	0.00
ATOM	1774	HA	GLU	116	-1.671	-17.239	10.127	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.908	-18.122	8.067	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.172	-19.232	8.574	1.00	0.00
ATOM	1777	1HG	GLU	116	-1.035	-20.345	9.786	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.274	-19.639	8.360	1.00	0.00
ATOM	1779	N	PRO	117	-4.654	-18.628	10.784	1.00	0.00



ATOM	1780	CA	PRO	117	-6.060	-18.281	11.046	1.00	0.00
ATOM	1784	C	PRO	117	-6.233	-17.297	12.203	1.00	0.00
ATOM	1785	O	PRO	117	-7.236	-16.592	12.280	1.00	0.00
ATOM	1781	CB	PRO	117	-6.715	-19.625	11.389	1.00	0.00
ATOM	1782	CG	PRO	117	-5.586	-20.527	11.752	1.00	0.00
ATOM	1783	CD	PRO	117	-4.428	-20.081	10.913	1.00	0.00
ATOM	1786	HA	PRO	117	-6.529	-17.872	10.163	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.252	-19.995	10.529	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.397	-19.495	12.216	1.00	0.00
ATOM	1789	1HG	PRO	117	-5.844	-21.551	11.523	1.00	0.00
ATOM	1790	2HG	PRO	117	-5.355	-20.421	12.801	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.452	-20.562	9.947	1.00	0.00
ATOM	1792	2HD	PRO	117	-3.494	-20.285	11.417	1.00	0.00
ATOM	1793	N	LEU	118	-5.256	-17.246	13.097	1.00	0.00
ATOM	1794	CA	LEU	118	-5.321	-16.344	14.240	1.00	0.00
ATOM	1799	C	LEU	118	-5.024	-14.910	13.815	1.00	0.00
ATOM	1800	O	LEU	118	-5.488	-13.962	14.445	1.00	0.00
ATOM	1795	CB	LEU	118	-4.343	-16.789	15.334	1.00	0.00
ATOM	1796	CG	LEU	118	-4.975	-17.540	16.511	1.00	0.00
ATOM	1797	CD1	LEU	118	-6.151	-16.762	17.081	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.409	-18.935	16.086	1.00	0.00
ATOM	1801	H	LEU	118	-4.474	-17.824	12.985	1.00	0.00
ATOM	1802	HA	LEU	118	-6.326	-16.386	14.631	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.849	-15.912	15.723	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.600	-17.431	14.885	1.00	0.00
ATOM	1805	HG	LEU	118	-4.238	-17.644	17.294	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.266	-15.835	16.538	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.969	-16.549	18.123	1.00	0.00
ATOM	1808	3HD1	LEU	118	-7.052	-17.350	16.985	1.00	0.00
ATOM	1809	1HD2	LEU	118	-6.150	-19.308	16.777	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.553	-19.593	16.087	1.00	0.00
ATOM	1811	3HD2	LEU	118	-5.830	-18.895	15.092	1.00	0.00
ATOM	1812	N	VAL	119	-4.259	-14.762	12.738	1.00	0.00
ATOM	1813	CA	VAL	119	-3.897	-13.446	12.216	1.00	0.00
ATOM	1817	C	VAL	119	-5.138	-12.640	11.843	1.00	0.00
ATOM	1818	O	VAL	119	-5.321	-11.513	12.308	1.00	0.00
ATOM	1814	CB	VAL	119	-2.987	-13.571	10.972	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.703	-12.209	10.356	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.690	-14.278	11.327	1.00	0.00
ATOM	1819	H	VAL	119	-3.930	-15.562	12.276	1.00	0.00
ATOM	1820	HA	VAL	119	-3.353	-12.916	12.986	1.00	0.00
ATOM	1821	HB	VAL	119	-3.504	-14.170	10.236	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.639	-12.024	10.363	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.206	-11.441	10.927	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.064	-12.192	9.338	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.884	-13.561	11.353	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.477	-15.032	10.584	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.787	-14.745	12.296	1.00	0.00
ATOM	1828	N	GLY	120	-5.984	-13.227	11.004	1.00	0.00
ATOM	1829	CA	GLY	120	-7.197	-12.554	10.577	1.00	0.00
ATOM	1830	C	GLY	120	-8.113	-12.223	11.736	1.00	0.00
ATOM	1831	O	GLY	120	-8.835	-11.227	11.700	1.00	0.00
ATOM	1832	H	GLY	120	-5.781	-14.126	10.669	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.724	-13.185	9.882	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.927	-11.636	10.076	1.00	0.00
ATOM	1835	N	GLN	121	-8.070	-13.046	12.774	1.00	0.00
ATOM	1836	CA	GLN	121	-8.890	-12.819	13.948	1.00	0.00
ATOM	1842	C	GLN	121	-8.384	-11.589	14.686	1.00	0.00
ATOM	1843	O	GLN	121	-9.151	-10.693	14.987	1.00	0.00
ATOM	1837	CB	GLN	121	-8.893	-14.043	14.867	1.00	0.00
ATOM	1838	CG	GLN	121	-9.433	-15.319	14.222	1.00	0.00
ATOM	1839	CD	GLN	121	-10.335	-15.061	13.028	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.954	-15.309	11.881	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.535	-14.564	13.282	1.00	0.00
ATOM	1844	H	GLN	121	-7.467	-13.815	12.752	1.00	0.00
ATOM	1845	HA	GLN	121	-9.901	-12.622	13.617	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.501	-13.822	15.732	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.883	-14.231	15.192	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.993	-15.869	14.964	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.596	-15.916	13.894	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.780	-14.393	14.215	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.130	-14.374	12.525	1.00	0.00
ATOM	1852	N	VAL	122	-7.087	-11.524	14.944	1.00	0.00



ATOM	1853	CA	VAL	122	-6.521	-10.357	15.618	1.00	0.00
ATOM	1857	C	VAL	122	-6.815	-9.103	14.804	1.00	0.00
ATOM	1858	O	VAL	122	-7.078	-8.035	15.358	1.00	0.00
ATOM	1854	CB	VAL	122	-4.995	-10.500	15.822	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.440	-9.318	16.599	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.668	-11.803	16.532	1.00	0.00
ATOM	1859	H	VAL	122	-6.496	-12.255	14.657	1.00	0.00
ATOM	1860	HA	VAL	122	-7.004	-10.260	16.588	1.00	0.00
ATOM	1861	HB	VAL	122	-4.522	-10.520	14.849	1.00	0.00
ATOM	1862	1HG1	VAL	122	-5.146	-8.501	16.566	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.505	-9.004	16.159	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.274	-9.609	17.626	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.478	-12.062	17.198	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.758	-11.684	17.102	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.536	-12.588	15.802	1.00	0.00
ATOM	1868	N	GLN	123	-6.805	-9.261	13.487	1.00	0.00
ATOM	1869	CA	GLN	123	-7.101	-8.166	12.579	1.00	0.00
ATOM	1875	C	GLN	123	-8.516	-7.651	12.813	1.00	0.00
ATOM	1876	O	GLN	123	-8.730	-6.448	12.978	1.00	0.00
ATOM	1870	CB	GLN	123	-6.946	-8.627	11.128	1.00	0.00
ATOM	1871	CG	GLN	123	-6.575	-7.513	10.165	1.00	0.00
ATOM	1872	CD	GLN	123	-5.661	-7.988	9.054	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.036	-8.827	8.237	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.454	-7.454	9.019	1.00	0.00
ATOM	1877	H	GLN	123	-6.612	-10.149	13.115	1.00	0.00
ATOM	1878	HA	GLN	123	-6.402	-7.369	12.777	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.881	-9.058	10.801	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.178	-9.385	11.081	1.00	0.00
ATOM	1881	1HG	GLN	123	-6.073	-6.731	10.715	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.479	-7.119	9.724	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.223	-6.793	9.703	1.00	0.00
ATOM	1884	2HE2	GLN	123	-3.842	-7.742	8.313	1.00	0.00
ATOM	1885	N	GLU	124	-9.481	-8.564	12.836	1.00	0.00
ATOM	1886	CA	GLU	124	-10.867	-8.185	13.054	1.00	0.00
ATOM	1892	C	GLU	124	-11.081	-7.703	14.485	1.00	0.00
ATOM	1893	O	GLU	124	-11.797	-6.732	14.699	1.00	0.00
ATOM	1887	CB	GLU	124	-11.822	-9.333	12.724	1.00	0.00
ATOM	1888	CG	GLU	124	-11.547	-10.597	13.506	1.00	0.00
ATOM	1889	CD	GLU	124	-12.630	-11.639	13.335	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.009	-11.921	12.178	1.00	0.00
ATOM	1891	OE2	GLU	124	-13.103	-12.185	14.355	1.00	0.00
ATOM	1894	H	GLU	124	-9.253	-9.513	12.703	1.00	0.00
ATOM	1895	HA	GLU	124	-11.080	-7.360	12.388	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.742	-9.561	11.672	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.832	-9.017	12.939	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.463	-10.348	14.553	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.607	-11.009	13.169	1.00	0.00
ATOM	1900	N	TRP	125	-10.447	-8.360	15.467	1.00	0.00
ATOM	1901	CA	TRP	125	-10.593	-7.938	16.862	1.00	0.00
ATOM	1912	C	TRP	125	-10.165	-6.485	17.001	1.00	0.00
ATOM	1913	O	TRP	125	-10.782	-5.700	17.725	1.00	0.00
ATOM	1902	CB	TRP	125	-9.718	-8.762	17.832	1.00	0.00
ATOM	1903	CG	TRP	125	-9.851	-10.259	17.782	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.894	-11.012	17.319	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.859	-11.187	18.236	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.597	-12.354	17.448	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.350	-12.481	17.999	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.596	-11.041	18.814	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.616	-13.625	18.313	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.873	-12.172	19.130	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.380	-13.450	18.874	1.00	0.00
ATOM	1914	H	TRP	125	-9.864	-9.131	15.248	1.00	0.00
ATOM	1915	HA	TRP	125	-11.632	-8.025	17.136	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.934	-8.452	18.838	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.685	-8.535	17.625	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.806	-10.606	16.913	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.179	-13.094	17.186	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.192	-10.062	19.036	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.993	-14.618	18.121	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.893	-12.076	19.576	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.778	-14.308	19.149	1.00	0.00
ATOM	1924	N	MET	126	-9.085	-6.148	16.314	1.00	0.00
ATOM	1925	CA	MET	126	-8.535	-4.801	16.377	1.00	0.00



ATOM	1930	C	MET	126	-9.352	-3.800	15.560	1.00	0.00
ATOM	1931	O	MET	126	-9.624	-2.696	16.031	1.00	0.00
ATOM	1926	CB	MET	126	-7.055	-4.811	15.950	1.00	0.00
ATOM	1927	CG	MET	126	-6.727	-3.979	14.716	1.00	0.00
ATOM	1928	SD	MET	126	-5.337	-4.645	13.780	1.00	0.00
ATOM	1929	CE	MET	126	-3.994	-4.349	14.924	1.00	0.00
ATOM	1932	H	MET	126	-8.633	-6.838	15.761	1.00	0.00
ATOM	1933	HA	MET	126	-8.586	-4.492	17.408	1.00	0.00
ATOM	1934	1HB	MET	126	-6.762	-5.832	15.752	1.00	0.00
ATOM	1935	2HB	MET	126	-6.461	-4.435	16.769	1.00	0.00
ATOM	1936	1HG	MET	126	-6.484	-2.974	15.028	1.00	0.00
ATOM	1937	2HG	MET	126	-7.595	-3.954	14.073	1.00	0.00
ATOM	1938	1HE	MET	126	-3.224	-3.772	14.434	1.00	0.00
ATOM	1939	2HE	MET	126	-3.583	-5.294	15.248	1.00	0.00
ATOM	1940	3HE	MET	126	-4.363	-3.804	15.780	1.00	0.00
ATOM	1941	N	VAL	127	-9.742	-4.166	14.348	1.00	0.00
ATOM	1942	CA	VAL	127	-10.507	-3.249	13.514	1.00	0.00
ATOM	1946	C	VAL	127	-11.935	-3.068	14.033	1.00	0.00
ATOM	1947	O	VAL	127	-12.506	-1.987	13.898	1.00	0.00
ATOM	1943	CB	VAL	127	-10.512	-3.670	12.021	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.454	-4.837	11.766	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.874	-2.486	11.136	1.00	0.00
ATOM	1948	H	VAL	127	-9.501	-5.056	14.006	1.00	0.00
ATOM	1949	HA	VAL	127	-10.014	-2.288	13.576	1.00	0.00
ATOM	1950	HB	VAL	127	-9.510	-3.983	11.758	1.00	0.00
ATOM	1951	1HG1	VAL	127	-10.878	-5.714	11.509	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.118	-4.590	10.952	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.032	-5.033	12.657	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.508	-1.574	11.585	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.948	-2.430	11.031	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.423	-2.613	10.163	1.00	0.00
ATOM	1957	N	GLU	128	-12.508	-4.102	14.650	1.00	0.00
ATOM	1958	CA	GLU	128	-13.859	-3.991	15.183	1.00	0.00
ATOM	1964	C	GLU	128	-13.872	-3.057	16.383	1.00	0.00
ATOM	1965	O	GLU	128	-14.697	-2.146	16.465	1.00	0.00
ATOM	1959	CB	GLU	128	-14.415	-5.365	15.570	1.00	0.00
ATOM	1960	CG	GLU	128	-14.870	-6.195	14.380	1.00	0.00
ATOM	1961	CD	GLU	128	-16.348	-6.043	14.099	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.801	-4.903	13.881	1.00	0.00
ATOM	1963	OE2	GLU	128	-17.062	-7.066	14.085	1.00	0.00
ATOM	1966	H	GLU	128	-12.010	-4.951	14.760	1.00	0.00
ATOM	1967	HA	GLU	128	-14.478	-3.563	14.412	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.261	-5.225	16.227	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.650	-5.916	16.094	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.663	-7.236	14.582	1.00	0.00
ATOM	1971	2HG	GLU	128	-14.320	-5.883	13.505	1.00	0.00
ATOM	1972	N	TYR	129	-12.939	-3.272	17.302	1.00	0.00
ATOM	1973	CA	TYR	129	-12.832	-2.435	18.490	1.00	0.00
ATOM	1982	C	TYR	129	-12.597	-0.980	18.098	1.00	0.00
ATOM	1983	O	TYR	129	-13.077	-0.048	18.753	1.00	0.00
ATOM	1974	CB	TYR	129	-11.680	-2.916	19.373	1.00	0.00
ATOM	1975	CG	TYR	129	-11.818	-2.494	20.816	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.652	-3.182	21.689	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.127	-1.392	21.299	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.788	-2.784	23.005	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.262	-0.985	22.610	1.00	0.00
ATOM	1980	CZ	TYR	129	-12.093	-1.685	23.459	1.00	0.00
ATOM	1981	OH	TYR	129	-12.240	-1.269	24.758	1.00	0.00
ATOM	1984	H	TYR	129	-12.297	-4.006	17.173	1.00	0.00
ATOM	1985	HA	TYR	129	-13.758	-2.509	19.040	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.754	-2.509	18.995	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.633	-3.992	19.337	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.475	-0.847	20.633	1.00	0.00
ATOM	1989	HD2	TYR	129	-13.194	-4.044	21.328	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.715	-0.125	22.968	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.439	-3.331	23.670	1.00	0.00
ATOM	1992	HH	TYR	129	-12.353	-2.042	25.343	1.00	0.00
ATOM	1993	N	LEU	130	-11.851	-0.800	17.023	1.00	0.00
ATOM	1994	CA	LEU	130	-11.529	0.527	16.530	1.00	0.00
ATOM	1999	C	LEU	130	-12.730	1.194	15.863	1.00	0.00
ATOM	2000	O	LEU	130	-13.088	2.316	16.210	1.00	0.00
ATOM	1995	CB	LEU	130	-10.361	0.460	15.551	1.00	0.00
ATOM	1996	CG	LEU	130	-9.068	1.102	16.052	1.00	0.00



ATOM	1997	CD1	LEU	130	-7.999	0.047	16.287	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.582	2.151	15.065	1.00	0.00
ATOM	2001	H	LEU	130	-11.502	-1.589	16.550	1.00	0.00
ATOM	2002	HA	LEU	130	-11.231	1.127	17.378	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.658	0.964	14.645	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.163	-0.578	15.326	1.00	0.00
ATOM	2005	HG	LEU	130	-9.261	1.594	16.994	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.578	0.173	17.273	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.219	0.152	15.546	1.00	0.00
ATOM	2008	3HD1	LEU	130	-8.439	-0.936	16.208	1.00	0.00
ATOM	2009	1HD2	LEU	130	-9.410	2.780	14.774	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.177	1.662	14.192	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.816	2.755	15.529	1.00	0.00
ATOM	2012	N	GLU	131	-13.343	0.516	14.903	1.00	0.00
ATOM	2013	CA	GLU	131	-14.494	1.072	14.189	1.00	0.00
ATOM	2019	C	GLU	131	-15.676	1.330	15.125	1.00	0.00
ATOM	2020	O	GLU	131	-16.497	2.213	14.873	1.00	0.00
ATOM	2014	CB	GLU	131	-14.920	0.134	13.057	1.00	0.00
ATOM	2015	CG	GLU	131	-13.947	0.110	11.885	1.00	0.00
ATOM	2016	CD	GLU	131	-14.633	-0.110	10.550	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.851	-0.391	10.537	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.955	0.001	9.505	1.00	0.00
ATOM	2021	H	GLU	131	-13.011	-0.380	14.655	1.00	0.00
ATOM	2022	HA	GLU	131	-14.185	2.014	13.760	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.885	0.450	12.688	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.003	-0.868	13.447	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.236	-0.687	12.043	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.424	1.055	11.850	1.00	0.00
ATOM	2027	N	THR	132	-15.771	0.548	16.191	1.00	0.00
ATOM	2028	CA	THR	132	-16.872	0.683	17.137	1.00	0.00
ATOM	2032	C	THR	132	-16.623	1.754	18.211	1.00	0.00
ATOM	2033	O	THR	132	-17.564	2.424	18.640	1.00	0.00
ATOM	2029	CB	THR	132	-17.171	-0.668	17.820	1.00	0.00
ATOM	2030	OG1	THR	132	-17.275	-1.697	16.829	1.00	0.00
ATOM	2031	CG2	THR	132	-18.464	-0.612	18.621	1.00	0.00
ATOM	2034	H	THR	132	-15.099	-0.153	16.332	1.00	0.00
ATOM	2035	HA	THR	132	-17.748	0.966	16.573	1.00	0.00
ATOM	2036	HB	THR	132	-16.355	-0.904	18.489	1.00	0.00
ATOM	2037	HG1	THR	132	-16.392	-1.932	16.511	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.279	-0.978	18.016	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.661	0.409	18.913	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.365	-1.226	19.504	1.00	0.00
ATOM	2041	N	ARG	133	-15.382	1.908	18.677	1.00	0.00
ATOM	2042	CA	ARG	133	-15.115	2.896	19.732	1.00	0.00
ATOM	2050	C	ARG	133	-13.975	3.860	19.404	1.00	0.00
ATOM	2051	O	ARG	133	-14.071	5.046	19.714	1.00	0.00
ATOM	2043	CB	ARG	133	-14.820	2.208	21.072	1.00	0.00
ATOM	2044	CG	ARG	133	-15.433	0.824	21.230	1.00	0.00
ATOM	2045	CD	ARG	133	-15.054	0.200	22.566	1.00	0.00
ATOM	2046	NE	ARG	133	-15.967	0.593	23.640	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.888	0.138	24.895	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.908	-0.685	25.253	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.777	0.533	25.796	1.00	0.00
ATOM	2052	H	ARG	133	-14.656	1.346	18.336	1.00	0.00
ATOM	2053	HA	ARG	133	-16.014	3.482	19.848	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.194	2.834	21.869	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.750	2.111	21.181	1.00	0.00
ATOM	2056	1HG	ARG	133	-15.079	0.189	20.431	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.508	0.910	21.176	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.053	0.515	22.825	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.075	-0.874	22.466	1.00	0.00
ATOM	2060	HE	ARG	133	-16.686	1.222	23.411	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.214	-0.970	24.587	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.851	-1.027	26.194	1.00	0.00
ATOM	2063	1HH2	ARG	133	-17.509	1.178	25.537	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.731	0.189	26.735	1.00	0.00
ATOM	2065	N	LEU	134	-12.891	3.370	18.812	1.00	0.00
ATOM	2066	CA	LEU	134	-11.753	4.237	18.501	1.00	0.00
ATOM	2071	C	LEU	134	-12.154	5.358	17.547	1.00	0.00
ATOM	2072	O	LEU	134	-11.803	6.516	17.764	1.00	0.00
ATOM	2067	CB	LEU	134	-10.598	3.432	17.905	1.00	0.00
ATOM	2068	CG	LEU	134	-9.401	3.220	18.833	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.674	4.533	19.081	1.00	0.00



ATOM	2070	CD2	LEU	134	-9.844	2.592	20.145	1.00	0.00
ATOM	2073	H	LEU	134	-12.845	2.413	18.594	1.00	0.00
ATOM	2074	HA	LEU	134	-11.420	4.681	19.428	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.252	3.942	17.019	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.978	2.462	17.617	1.00	0.00
ATOM	2077	HG	LEU	134	-8.707	2.541	18.358	1.00	0.00
ATOM	2078	1HD1	LEU	134	-8.201	4.859	18.166	1.00	0.00
ATOM	2079	2HD1	LEU	134	-7.922	4.390	19.844	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.381	5.282	19.407	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.121	2.820	20.915	1.00	0.00
ATOM	2082	2HD2	LEU	134	-9.916	1.522	20.026	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.808	2.990	20.427	1.00	0.00
ATOM	2084	N	ALA	135	-12.891	5.005	16.497	1.00	0.00
ATOM	2085	CA	ALA	135	-13.346	5.974	15.508	1.00	0.00
ATOM	2087	C	ALA	135	-14.092	7.131	16.166	1.00	0.00
ATOM	2088	O	ALA	135	-13.986	8.274	15.719	1.00	0.00
ATOM	2086	CB	ALA	135	-14.228	5.294	14.472	1.00	0.00
ATOM	2089	H	ALA	135	-13.130	4.060	16.380	1.00	0.00
ATOM	2090	HA	ALA	135	-12.478	6.367	15.001	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.117	5.795	13.520	1.00	0.00
ATOM	2092	2HB	ALA	135	-15.259	5.346	14.787	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.935	4.260	14.371	1.00	0.00
ATOM	2094	N	ASP	136	-14.831	6.833	17.233	1.00	0.00
ATOM	2095	CA	ASP	136	-15.578	7.861	17.953	1.00	0.00
ATOM	2100	C	ASP	136	-14.621	8.844	18.607	1.00	0.00
ATOM	2101	O	ASP	136	-14.709	10.050	18.372	1.00	0.00
ATOM	2096	CB	ASP	136	-16.493	7.230	19.004	1.00	0.00
ATOM	2097	CG	ASP	136	-17.734	8.060	19.266	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.057	8.931	18.432	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.390	7.840	20.305	1.00	0.00
ATOM	2102	H	ASP	136	-14.867	5.904	17.551	1.00	0.00
ATOM	2103	HA	ASP	136	-16.178	8.399	17.232	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.948	7.129	19.932	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.800	6.251	18.665	1.00	0.00
ATOM	2106	N	TRP	137	-13.685	8.324	19.401	1.00	0.00
ATOM	2107	CA	TRP	137	-12.694	9.164	20.052	1.00	0.00
ATOM	2118	C	TRP	137	-11.932	9.958	19.004	1.00	0.00
ATOM	2119	O	TRP	137	-11.742	11.164	19.139	1.00	0.00
ATOM	2108	CB	TRP	137	-11.721	8.304	20.876	1.00	0.00
ATOM	2109	CG	TRP	137	-10.599	9.086	21.500	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.529	9.525	22.787	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.387	9.513	20.866	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.362	10.216	22.990	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.645	10.222	21.824	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.860	9.372	19.580	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.409	10.785	21.533	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.634	9.930	19.295	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.919	10.629	20.269	1.00	0.00
ATOM	2120	H	TRP	137	-13.646	7.351	19.534	1.00	0.00
ATOM	2121	HA	TRP	137	-13.209	9.854	20.702	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.288	7.550	20.234	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.268	7.819	21.671	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.288	9.345	23.530	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.087	10.637	23.831	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.400	8.834	18.814	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.842	11.322	22.270	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.214	9.825	18.304	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.959	11.052	20.004	1.00	0.00
ATOM	2130	N	ILE	138	-11.497	9.265	17.964	1.00	0.00
ATOM	2131	CA	ILE	138	-10.743	9.882	16.887	1.00	0.00
ATOM	2136	C	ILE	138	-11.514	11.034	16.250	1.00	0.00
ATOM	2137	O	ILE	138	-10.972	12.126	16.078	1.00	0.00
ATOM	2132	CB	ILE	138	-10.361	8.835	15.810	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.176	7.997	16.295	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.028	9.498	14.477	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.189	6.572	15.788	1.00	0.00
ATOM	2138	H	ILE	138	-11.684	8.297	17.923	1.00	0.00
ATOM	2139	HA	ILE	138	-9.829	10.273	17.312	1.00	0.00
ATOM	2140	HB	ILE	138	-11.209	8.187	15.658	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.183	7.967	17.374	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.258	8.458	15.959	1.00	0.00
ATOM	2143	1HG2	ILE	138	-10.894	9.463	13.832	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.209	8.972	14.008	1.00	0.00



ATOM	2145	3HG2	ILE	138	-9.745	10.527	14.644	1.00	0.00
ATOM	2146	1HD1	ILE	138	-10.009	6.443	15.096	1.00	0.00
ATOM	2147	2HD1	ILE	138	-9.311	5.895	16.620	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.257	6.359	15.285	1.00	0.00
ATOM	2149	N	HIS	139	-12.772	10.793	15.905	1.00	0.00
ATOM	2150	CA	HIS	139	-13.599	11.819	15.275	1.00	0.00
ATOM	2157	C	HIS	139	-13.858	12.997	16.213	1.00	0.00
ATOM	2158	O	HIS	139	-13.980	14.134	15.765	1.00	0.00
ATOM	2151	CB	HIS	139	-14.925	11.223	14.790	1.00	0.00
ATOM	2152	CG	HIS	139	-14.788	10.404	13.538	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.779	9.574	13.061	1.00	0.00
ATOM	2154	CD2	HIS	139	-13.752	10.280	12.671	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.359	8.976	11.961	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.134	9.387	11.702	1.00	0.00
ATOM	2159	H	HIS	139	-13.160	9.899	16.075	1.00	0.00
ATOM	2160	HA	HIS	139	-13.055	12.185	14.416	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.623	12.023	14.591	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.327	10.583	15.563	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.670	9.440	13.470	1.00	0.00
ATOM	2164	HD2	HIS	139	-12.800	10.788	12.734	1.00	0.00
ATOM	2165	HE1	HIS	139	-15.922	8.266	11.374	1.00	0.00
ATOM	2166	HE2	HIS	139	-13.669	9.255	10.836	1.00	0.00
ATOM	2167	N	SER	140	-13.946	12.723	17.508	1.00	0.00
ATOM	2168	CA	SER	140	-14.203	13.774	18.486	1.00	0.00
ATOM	2171	C	SER	140	-12.912	14.424	18.999	1.00	0.00
ATOM	2172	O	SER	140	-12.958	15.373	19.781	1.00	0.00
ATOM	2169	CB	SER	140	-15.009	13.212	19.657	1.00	0.00
ATOM	2170	OG	SER	140	-16.388	13.513	19.510	1.00	0.00
ATOM	2173	H	SER	140	-13.851	11.792	17.814	1.00	0.00
ATOM	2174	HA	SER	140	-14.795	14.533	17.996	1.00	0.00
ATOM	2175	1HB	SER	140	-14.653	13.647	20.580	1.00	0.00
ATOM	2176	2HB	SER	140	-14.888	12.140	19.694	1.00	0.00
ATOM	2177	HG	SER	140	-16.908	12.699	19.591	1.00	0.00
ATOM	2178	N	SER	141	-11.766	13.909	18.578	1.00	0.00
ATOM	2179	CA	SER	141	-10.491	14.457	19.026	1.00	0.00
ATOM	2182	C	SER	141	-9.884	15.398	17.994	1.00	0.00
ATOM	2183	O	SER	141	-9.503	16.525	18.315	1.00	0.00
ATOM	2180	CB	SER	141	-9.511	13.335	19.364	1.00	0.00
ATOM	2181	OG	SER	141	-9.038	13.470	20.693	1.00	0.00
ATOM	2184	H	SER	141	-11.778	13.139	17.972	1.00	0.00
ATOM	2185	HA	SER	141	-10.681	15.020	19.915	1.00	0.00
ATOM	2186	1HB	SER	141	-8.668	13.377	18.689	1.00	0.00
ATOM	2187	2HB	SER	141	-10.006	12.382	19.265	1.00	0.00
ATOM	2188	HG	SER	141	-8.097	13.672	20.678	1.00	0.00
ATOM	2189	N	GLY	142	-9.800	14.934	16.764	1.00	0.00
ATOM	2190	CA	GLY	142	-9.239	15.737	15.699	1.00	0.00
ATOM	2191	C	GLY	142	-9.336	15.022	14.382	1.00	0.00
ATOM	2192	O	GLY	142	-9.279	15.632	13.316	1.00	0.00
ATOM	2193	H	GLY	142	-10.129	14.033	16.571	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.199	15.937	15.916	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.773	16.669	15.638	1.00	0.00
ATOM	2196	N	GLY	143	-9.500	13.716	14.467	1.00	0.00
ATOM	2197	CA	GLY	143	-9.622	12.907	13.282	1.00	0.00
ATOM	2198	C	GLY	143	-8.319	12.294	12.862	1.00	0.00
ATOM	2199	O	GLY	143	-7.259	12.667	13.362	1.00	0.00
ATOM	2200	H	GLY	143	-9.550	13.296	15.357	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.990	13.518	12.477	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.325	12.119	13.467	1.00	0.00
ATOM	2203	N	TRP	144	-8.401	11.356	11.933	1.00	0.00
ATOM	2204	CA	TRP	144	-7.220	10.682	11.422	1.00	0.00
ATOM	2215	C	TRP	144	-6.284	11.700	10.793	1.00	0.00
ATOM	2216	O	TRP	144	-5.069	11.543	10.840	1.00	0.00
ATOM	2205	CB	TRP	144	-7.616	9.607	10.406	1.00	0.00
ATOM	2206	CG	TRP	144	-8.192	8.381	11.049	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.516	8.053	11.164	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.461	7.326	11.685	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.650	6.856	11.830	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.402	6.390	12.157	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.100	7.079	11.898	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.025	5.231	12.829	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.728	5.928	12.566	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.688	5.016	13.024	1.00	0.00
ATOM	2217	H	TRP	144	-9.283	11.117	11.573	1.00	0.00



ATOM	2218	HA	TRP	144	-6.715	10.215	12.255	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.742	9.311	9.846	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.355	10.011	9.730	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.327	8.657	10.786	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.502	6.406	12.034	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.346	7.770	11.551	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.752	4.515	13.188	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.677	5.715	12.738	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.354	4.129	13.541	1.00	0.00
ATOM	2227	N	ALA	145	-6.872	12.760	10.238	1.00	0.00
ATOM	2228	CA	ALA	145	-6.110	13.835	9.617	1.00	0.00
ATOM	2230	C	ALA	145	-5.233	14.550	10.645	1.00	0.00
ATOM	2231	O	ALA	145	-4.127	14.994	10.326	1.00	0.00
ATOM	2229	CB	ALA	145	-7.047	14.823	8.935	1.00	0.00
ATOM	2232	H	ALA	145	-7.849	12.826	10.263	1.00	0.00
ATOM	2233	HA	ALA	145	-5.474	13.398	8.861	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.573	15.396	9.683	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.759	14.283	8.328	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.473	15.490	8.308	1.00	0.00
ATOM	2237	N	GLU	146	-5.714	14.641	11.887	1.00	0.00
ATOM	2238	CA	GLU	146	-4.942	15.285	12.947	1.00	0.00
ATOM	2244	C	GLU	146	-3.689	14.454	13.218	1.00	0.00
ATOM	2245	O	GLU	146	-2.595	14.984	13.435	1.00	0.00
ATOM	2239	CB	GLU	146	-5.799	15.443	14.220	1.00	0.00
ATOM	2240	CG	GLU	146	-5.013	15.414	15.527	1.00	0.00
ATOM	2241	CD	GLU	146	-5.787	16.002	16.696	1.00	0.00
ATOM	2242	OE1	GLU	146	-6.484	17.020	16.502	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.703	15.448	17.811	1.00	0.00
ATOM	2246	H	GLU	146	-6.597	14.250	12.099	1.00	0.00
ATOM	2247	HA	GLU	146	-4.643	16.261	12.592	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.535	14.652	14.249	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.313	16.386	14.168	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.103	15.982	15.397	1.00	0.00
ATOM	2251	2HG	GLU	146	-4.767	14.390	15.761	1.00	0.00
ATOM	2252	N	PHE	147	-3.869	13.143	13.158	1.00	0.00
ATOM	2253	CA	PHE	147	-2.787	12.191	13.361	1.00	0.00
ATOM	2261	C	PHE	147	-1.781	12.259	12.208	1.00	0.00
ATOM	2262	O	PHE	147	-0.571	12.167	12.429	1.00	0.00
ATOM	2254	CB	PHE	147	-3.375	10.779	13.487	1.00	0.00
ATOM	2255	CG	PHE	147	-2.372	9.703	13.792	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.371	9.905	14.728	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.441	8.483	13.141	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.455	8.909	15.004	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.527	7.484	13.413	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.533	7.698	14.346	1.00	0.00
ATOM	2263	H	PHE	147	-4.764	12.805	12.952	1.00	0.00
ATOM	2264	HA	PHE	147	-2.278	12.450	14.283	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.864	10.522	12.559	1.00	0.00
ATOM	2266	2HB	PHE	147	-4.108	10.775	14.280	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.308	10.852	15.243	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.218	8.316	12.411	1.00	0.00
ATOM	2269	HE1	PHE	147	0.322	9.078	15.735	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.590	6.538	12.896	1.00	0.00
ATOM	2271	HZ	PHE	147	0.186	6.918	14.558	1.00	0.00
ATOM	2272	N	THR	148	-2.280	12.428	10.981	1.00	0.00
ATOM	2273	CA	THR	148	-1.414	12.512	9.806	1.00	0.00
ATOM	2277	C	THR	148	-0.478	13.707	9.891	1.00	0.00
ATOM	2278	O	THR	148	0.655	13.649	9.425	1.00	0.00
ATOM	2274	CB	THR	148	-2.223	12.616	8.504	1.00	0.00
ATOM	2275	OG1	THR	148	-3.570	12.200	8.733	1.00	0.00
ATOM	2276	CG2	THR	148	-1.597	11.763	7.414	1.00	0.00
ATOM	2279	H	THR	148	-3.257	12.496	10.861	1.00	0.00
ATOM	2280	HA	THR	148	-0.822	11.609	9.764	1.00	0.00
ATOM	2281	HB	THR	148	-2.223	13.645	8.179	1.00	0.00
ATOM	2282	HG1	THR	148	-3.827	11.547	8.070	1.00	0.00
ATOM	2283	1HG2	THR	148	-2.367	11.186	6.923	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.871	11.095	7.853	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.109	12.401	6.692	1.00	0.00
ATOM	2286	N	ALA	149	-0.948	14.787	10.488	1.00	0.00
ATOM	2287	CA	ALA	149	-0.128	15.976	10.628	1.00	0.00
ATOM	2289	C	ALA	149	0.844	15.799	11.786	1.00	0.00
ATOM	2290	O	ALA	149	2.006	16.194	11.708	1.00	0.00
ATOM	2288	CB	ALA	149	-0.996	17.206	10.842	1.00	0.00



ATOM	2291	H	ALA	149	-1.865	14.782	10.844	1.00	0.00
ATOM	2292	HA	ALA	149	0.434	16.107	9.715	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.615	17.364	9.971	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.366	18.069	10.998	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.624	17.056	11.708	1.00	0.00
ATOM	2296	N	LEU	150	0.350	15.193	12.856	1.00	0.00
ATOM	2297	CA	LEU	150	1.144	14.948	14.054	1.00	0.00
ATOM	2302	C	LEU	150	2.342	14.039	13.774	1.00	0.00
ATOM	2303	O	LEU	150	3.450	14.295	14.250	1.00	0.00
ATOM	2298	CB	LEU	150	0.261	14.322	15.138	1.00	0.00
ATOM	2299	CG	LEU	150	-0.190	15.276	16.242	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.563	14.883	16.761	1.00	0.00
ATOM	2301	CD2	LEU	150	0.821	15.299	17.378	1.00	0.00
ATOM	2304	H	LEU	150	-0.589	14.903	12.845	1.00	0.00
ATOM	2305	HA	LEU	150	1.506	15.901	14.409	1.00	0.00
ATOM	2306	1HB	LEU	150	0.803	13.514	15.593	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.617	13.918	14.663	1.00	0.00
ATOM	2308	HG	LEU	150	-0.260	16.271	15.836	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.324	15.370	16.170	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.658	15.185	17.793	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.682	13.812	16.688	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.368	14.894	18.271	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.132	16.316	17.563	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.680	14.703	17.109	1.00	0.00
ATOM	2315	N	TYR	151	2.117	12.965	13.027	1.00	0.00
ATOM	2316	CA	TYR	151	3.182	12.013	12.724	1.00	0.00
ATOM	2325	C	TYR	151	3.578	12.043	11.254	1.00	0.00
ATOM	2326	O	TYR	151	4.223	11.119	10.760	1.00	0.00
ATOM	2317	CB	TYR	151	2.742	10.599	13.108	1.00	0.00
ATOM	2318	CG	TYR	151	3.339	10.112	14.408	1.00	0.00
ATOM	2319	CD1	TYR	151	4.664	9.709	14.475	1.00	0.00
ATOM	2320	CD2	TYR	151	2.576	10.057	15.565	1.00	0.00
ATOM	2321	CE1	TYR	151	5.214	9.265	15.663	1.00	0.00
ATOM	2322	CE2	TYR	151	3.117	9.617	16.756	1.00	0.00
ATOM	2323	CZ	TYR	151	4.436	9.221	16.800	1.00	0.00
ATOM	2324	OH	TYR	151	4.979	8.788	17.985	1.00	0.00
ATOM	2327	H	TYR	151	1.206	12.795	12.689	1.00	0.00
ATOM	2328	HA	TYR	151	4.041	12.281	13.320	1.00	0.00
ATOM	2329	1HB	TYR	151	3.039	9.913	12.328	1.00	0.00
ATOM	2330	2HB	TYR	151	1.668	10.578	13.209	1.00	0.00
ATOM	2331	HD1	TYR	151	1.542	10.368	15.527	1.00	0.00
ATOM	2332	HD2	TYR	151	5.272	9.746	13.583	1.00	0.00
ATOM	2333	HE1	TYR	151	2.506	9.581	17.647	1.00	0.00
ATOM	2334	HE2	TYR	151	6.249	8.955	15.697	1.00	0.00
ATOM	2335	HH	TYR	151	5.882	9.135	18.069	1.00	0.00
ATOM	2336	N	GLY	152	3.193	13.092	10.550	1.00	0.00
ATOM	2337	CA	GLY	152	3.526	13.181	9.148	1.00	0.00
ATOM	2338	C	GLY	152	4.583	14.220	8.860	1.00	0.00
ATOM	2339	O	GLY	152	5.573	14.332	9.583	1.00	0.00
ATOM	2340	H	GLY	152	2.678	13.807	10.978	1.00	0.00
ATOM	2341	1HA	GLY	152	2.631	13.431	8.595	1.00	0.00
ATOM	2342	2HA	GLY	152	3.884	12.219	8.814	1.00	0.00
ATOM	2343	N	ASP	153	4.372	14.967	7.789	1.00	0.00
ATOM	2344	CA	ASP	153	5.311	16.002	7.367	1.00	0.00
ATOM	2349	C	ASP	153	5.069	17.302	8.115	1.00	0.00
ATOM	2350	O	ASP	153	5.994	18.079	8.348	1.00	0.00
ATOM	2345	CB	ASP	153	5.194	16.238	5.863	1.00	0.00
ATOM	2346	CG	ASP	153	6.274	15.520	5.088	1.00	0.00
ATOM	2347	OD1	ASP	153	7.459	15.884	5.244	1.00	0.00
ATOM	2348	OD2	ASP	153	5.944	14.590	4.328	1.00	0.00
ATOM	2351	H	ASP	153	3.566	14.809	7.257	1.00	0.00
ATOM	2352	HA	ASP	153	6.309	15.654	7.590	1.00	0.00
ATOM	2353	1HB	ASP	153	5.273	17.297	5.663	1.00	0.00
ATOM	2354	2HB	ASP	153	4.233	15.882	5.521	1.00	0.00
ATOM	2355	N	GLY	154	3.822	17.530	8.502	1.00	0.00
ATOM	2356	CA	GLY	154	3.476	18.737	9.229	1.00	0.00
ATOM	2357	C	GLY	154	3.739	18.602	10.717	1.00	0.00
ATOM	2358	O	GLY	154	2.973	19.101	11.539	1.00	0.00
ATOM	2359	H	GLY	154	3.130	16.871	8.297	1.00	0.00
ATOM	2360	1HA	GLY	154	2.428	18.950	9.076	1.00	0.00
ATOM	2361	2HA	GLY	154	4.061	19.559	8.842	1.00	0.00
ATOM	2362	N	ALA	155	4.827	17.926	11.059	1.00	0.00
ATOM	2363	CA	ALA	155	5.202	17.716	12.447	1.00	0.00



ATOM	2365	C	ALA	155	5.955	18.925	12.989	1.00	0.00
ATOM	2366	O	ALA	155	7.159	18.862	13.254	1.00	0.00
ATOM	2364	CB	ALA	155	6.039	16.450	12.580	1.00	0.00
ATOM	2367	H	ALA	155	5.395	17.561	10.353	1.00	0.00
ATOM	2368	HA	ALA	155	4.297	17.583	13.020	1.00	0.00
ATOM	2369	1HB	ALA	155	5.832	15.980	13.530	1.00	0.00
ATOM	2370	2HB	ALA	155	7.087	16.704	12.526	1.00	0.00
ATOM	2371	3HB	ALA	155	5.791	15.770	11.779	1.00	0.00
ATOM	2372	N	LEU	156	5.235	20.027	13.138	1.00	0.00
ATOM	2373	CA	LEU	156	5.805	21.263	13.636	1.00	0.00
ATOM	2378	C	LEU	156	6.213	21.132	15.100	1.00	0.00
ATOM	2379	O	LEU	156	5.996	20.094	15.729	1.00	0.00
ATOM	2374	CB	LEU	156	4.808	22.410	13.466	1.00	0.00
ATOM	2375	CG	LEU	156	3.433	22.209	14.108	1.00	0.00
ATOM	2376	CD1	LEU	156	2.981	23.493	14.779	1.00	0.00
ATOM	2377	CD2	LEU	156	2.408	21.775	13.073	1.00	0.00
ATOM	2380	H	LEU	156	4.286	20.010	12.895	1.00	0.00
ATOM	2381	HA	LEU	156	6.685	21.479	13.052	1.00	0.00
ATOM	2382	1HB	LEU	156	4.664	22.579	12.413	1.00	0.00
ATOM	2383	2HB	LEU	156	5.246	23.291	13.892	1.00	0.00
ATOM	2384	HG	LEU	156	3.501	21.438	14.863	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.538	23.261	15.737	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.252	23.986	14.155	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.832	24.142	14.924	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.422	21.800	13.512	1.00	0.00
ATOM	2389	2HD2	LEU	156	2.630	20.771	12.743	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.442	22.448	12.229	1.00	0.00
ATOM	2391	N	GLU	157	6.809	22.194	15.633	1.00	0.00
ATOM	2392	CA	GLU	157	7.265	22.219	17.017	1.00	0.00
ATOM	2398	C	GLU	157	6.144	21.846	17.984	1.00	0.00
ATOM	2399	O	GLU	157	6.373	21.148	18.974	1.00	0.00
ATOM	2393	CB	GLU	157	7.802	23.606	17.361	1.00	0.00
ATOM	2394	CG	GLU	157	9.271	23.797	17.024	1.00	0.00
ATOM	2395	CD	GLU	157	9.638	25.255	16.829	1.00	0.00
ATOM	2396	OE1	GLU	157	8.777	26.033	16.377	1.00	0.00
ATOM	2397	OE2	GLU	157	10.794	25.625	17.132	1.00	0.00
ATOM	2400	H	GLU	157	6.955	22.988	15.074	1.00	0.00
ATOM	2401	HA	GLU	157	8.062	21.506	17.115	1.00	0.00
ATOM	2402	1HB	GLU	157	7.671	23.779	18.417	1.00	0.00
ATOM	2403	2HB	GLU	157	7.234	24.338	16.812	1.00	0.00
ATOM	2404	1HG	GLU	157	9.492	23.259	16.113	1.00	0.00
ATOM	2405	2HG	GLU	157	9.867	23.396	17.831	1.00	0.00
ATOM	2406	N	GLU	158	4.933	22.306	17.691	1.00	0.00
ATOM	2407	CA	GLU	158	3.786	22.014	18.543	1.00	0.00
ATOM	2413	C	GLU	158	3.419	20.537	18.478	1.00	0.00
ATOM	2414	O	GLU	158	3.209	19.900	19.506	1.00	0.00
ATOM	2408	CB	GLU	158	2.585	22.866	18.147	1.00	0.00
ATOM	2409	CG	GLU	158	2.818	24.353	18.324	1.00	0.00
ATOM	2410	CD	GLU	158	1.543	25.106	18.628	1.00	0.00
ATOM	2411	OE1	GLU	158	0.553	24.932	17.883	1.00	0.00
ATOM	2412	OE2	GLU	158	1.526	25.875	19.612	1.00	0.00
ATOM	2415	H	GLU	158	4.810	22.852	16.882	1.00	0.00
ATOM	2416	HA	GLU	158	4.064	22.254	19.559	1.00	0.00
ATOM	2417	1HB	GLU	158	1.740	22.581	18.756	1.00	0.00
ATOM	2418	2HB	GLU	158	2.350	22.680	17.110	1.00	0.00
ATOM	2419	1HG	GLU	158	3.245	24.750	17.415	1.00	0.00
ATOM	2420	2HG	GLU	158	3.509	24.501	19.141	1.00	0.00
ATOM	2421	N	ALA	159	3.358	19.996	17.267	1.00	0.00
ATOM	2422	CA	ALA	159	3.025	18.588	17.074	1.00	0.00
ATOM	2424	C	ALA	159	4.084	17.691	17.707	1.00	0.00
ATOM	2425	O	ALA	159	3.782	16.599	18.185	1.00	0.00
ATOM	2423	CB	ALA	159	2.878	18.278	15.592	1.00	0.00
ATOM	2426	H	ALA	159	3.547	20.553	16.485	1.00	0.00
ATOM	2427	HA	ALA	159	2.076	18.403	17.554	1.00	0.00
ATOM	2428	1HB	ALA	159	3.596	18.857	15.030	1.00	0.00
ATOM	2429	2HB	ALA	159	1.879	18.532	15.270	1.00	0.00
ATOM	2430	3HB	ALA	159	3.053	17.225	15.425	1.00	0.00
ATOM	2431	N	ARG	160	5.322	18.167	17.708	1.00	0.00
ATOM	2432	CA	ARG	160	6.431	17.421	18.283	1.00	0.00
ATOM	2440	C	ARG	160	6.271	17.281	19.796	1.00	0.00
ATOM	2441	O	ARG	160	6.257	16.168	20.326	1.00	0.00
ATOM	2433	CB	ARG	160	7.755	18.113	17.965	1.00	0.00
ATOM	2434	CG	ARG	160	8.561	17.422	16.880	1.00	0.00



ATOM	2435	CD	ARG	160	9.481	18.399	16.169	1.00	0.00
ATOM	2436	NE	ARG	160	9.402	18.272	14.713	1.00	0.00
ATOM	2437	CZ	ARG	160	10.356	17.732	13.954	1.00	0.00
ATOM	2438	NH1	ARG	160	11.465	17.253	14.511	1.00	0.00
ATOM	2439	NH2	ARG	160	10.197	17.670	12.636	1.00	0.00
ATOM	2442	H	ARG	160	5.493	19.048	17.308	1.00	0.00
ATOM	2443	HA	ARG	160	6.434	16.436	17.841	1.00	0.00
ATOM	2444	1HB	ARG	160	8.355	18.146	18.863	1.00	0.00
ATOM	2445	2HB	ARG	160	7.551	19.124	17.642	1.00	0.00
ATOM	2446	1HG	ARG	160	7.880	16.990	16.160	1.00	0.00
ATOM	2447	2HG	ARG	160	9.156	16.640	17.329	1.00	0.00
ATOM	2448	1HD	ARG	160	10.497	18.213	16.484	1.00	0.00
ATOM	2449	2HD	ARG	160	9.198	19.404	16.447	1.00	0.00
ATOM	2450	HE	ARG	160	8.584	18.614	14.273	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.591	17.294	15.504	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.187	16.847	13.936	1.00	0.00
ATOM	2453	1HH2	ARG	160	9.361	18.029	12.211	1.00	0.00
ATOM	2454	2HH2	ARG	160	10.911	17.269	12.058	1.00	0.00
ATOM	2455	N	ARG	161	6.153	18.414	20.487	1.00	0.00
ATOM	2456	CA	ARG	161	6.002	18.409	21.940	1.00	0.00
ATOM	2464	C	ARG	161	4.683	17.762	22.360	1.00	0.00
ATOM	2465	O	ARG	161	4.609	17.103	23.397	1.00	0.00
ATOM	2457	CB	ARG	161	6.104	19.831	22.504	1.00	0.00
ATOM	2458	CG	ARG	161	4.960	20.744	22.100	1.00	0.00
ATOM	2459	CD	ARG	161	5.070	22.103	22.770	1.00	0.00
ATOM	2460	NE	ARG	161	3.947	22.370	23.670	1.00	0.00
ATOM	2461	CZ	ARG	161	3.626	23.582	24.117	1.00	0.00
ATOM	2462	NH1	ARG	161	4.353	24.638	23.774	1.00	0.00
ATOM	2463	NH2	ARG	161	2.584	23.737	24.922	1.00	0.00
ATOM	2466	H	ARG	161	6.174	19.272	20.009	1.00	0.00
ATOM	2467	HA	ARG	161	6.810	17.824	22.344	1.00	0.00
ATOM	2468	1HB	ARG	161	7.027	20.274	22.158	1.00	0.00
ATOM	2469	2HB	ARG	161	6.127	19.776	23.582	1.00	0.00
ATOM	2470	1HG	ARG	161	4.024	20.285	22.385	1.00	0.00
ATOM	2471	2HG	ARG	161	4.986	20.875	21.030	1.00	0.00
ATOM	2472	1HD	ARG	161	5.094	22.865	22.004	1.00	0.00
ATOM	2473	2HD	ARG	161	5.988	22.136	23.336	1.00	0.00
ATOM	2474	HE	ARG	161	3.404	21.600	23.953	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.158	24.530	23.174	1.00	0.00
ATOM	2476	2HH1	ARG	161	4.101	25.555	24.106	1.00	0.00
ATOM	2477	1HH2	ARG	161	2.033	22.935	25.198	1.00	0.00
ATOM	2478	2HH2	ARG	161	2.342	24.647	25.261	1.00	0.00
ATOM	2479	N	LEU	162	3.645	17.944	21.550	1.00	0.00
ATOM	2480	CA	LEU	162	2.339	17.370	21.848	1.00	0.00
ATOM	2485	C	LEU	162	2.383	15.854	21.743	1.00	0.00
ATOM	2486	O	LEU	162	1.670	15.158	22.457	1.00	0.00
ATOM	2481	CB	LEU	162	1.275	17.927	20.899	1.00	0.00
ATOM	2482	CG	LEU	162	-0.145	17.957	21.464	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.449	19.316	22.072	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.156	17.619	20.379	1.00	0.00
ATOM	2487	H	LEU	162	3.760	18.476	20.732	1.00	0.00
ATOM	2488	HA	LEU	162	2.084	17.640	22.862	1.00	0.00
ATOM	2489	1HB	LEU	162	1.269	17.322	20.005	1.00	0.00
ATOM	2490	2HB	LEU	162	1.556	18.935	20.629	1.00	0.00
ATOM	2491	HG	LEU	162	-0.231	17.215	22.246	1.00	0.00
ATOM	2492	1HD1	LEU	162	-0.376	20.077	21.309	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.262	19.526	22.859	1.00	0.00
ATOM	2494	3HD1	LEU	162	-1.448	19.311	22.482	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.329	18.490	19.764	1.00	0.00
ATOM	2496	2HD2	LEU	162	-2.085	17.310	20.836	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.772	16.816	19.767	1.00	0.00
ATOM	2498	N	ARG	163	3.228	15.349	20.855	1.00	0.00
ATOM	2499	CA	ARG	163	3.364	13.913	20.661	1.00	0.00
ATOM	2507	C	ARG	163	4.040	13.266	21.863	1.00	0.00
ATOM	2508	O	ARG	163	3.533	12.290	22.421	1.00	0.00
ATOM	2500	CB	ARG	163	4.172	13.622	19.403	1.00	0.00
ATOM	2501	CG	ARG	163	3.378	12.905	18.330	1.00	0.00
ATOM	2502	CD	ARG	163	4.052	13.024	16.977	1.00	0.00
ATOM	2503	NE	ARG	163	5.367	12.385	16.967	1.00	0.00
ATOM	2504	CZ	ARG	163	6.241	12.482	15.969	1.00	0.00
ATOM	2505	NH1	ARG	163	5.961	13.213	14.892	1.00	0.00
ATOM	2506	NH2	ARG	163	7.392	11.828	16.046	1.00	0.00
ATOM	2509	H	ARG	163	3.775	15.959	20.315	1.00	0.00



ATOM	2510	HA	ARG	163	2.374	13.496	20.550	1.00	0.00
ATOM	2511	1HB	ARG	163	5.020	13.007	19.664	1.00	0.00
ATOM	2512	2HB	ARG	163	4.529	14.556	18.993	1.00	0.00
ATOM	2513	1HG	ARG	163	2.392	13.340	18.273	1.00	0.00
ATOM	2514	2HG	ARG	163	3.301	11.860	18.591	1.00	0.00
ATOM	2515	1HD	ARG	163	4.164	14.071	16.734	1.00	0.00
ATOM	2516	2HD	ARG	163	3.426	12.549	16.236	1.00	0.00
ATOM	2517	HE	ARG	163	5.604	11.832	17.748	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.080	13.699	14.824	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.621	13.279	14.142	1.00	0.00
ATOM	2520	1HH2	ARG	163	7.598	11.258	16.862	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.061	11.878	15.293	1.00	0.00
ATOM	2522	N	GLU	164	5.184	13.811	22.255	1.00	0.00
ATOM	2523	CA	GLU	164	5.925	13.279	23.388	1.00	0.00
ATOM	2529	C	GLU	164	5.158	13.504	24.683	1.00	0.00
ATOM	2530	O	GLU	164	5.122	12.630	25.548	1.00	0.00
ATOM	2524	CB	GLU	164	7.318	13.902	23.461	1.00	0.00
ATOM	2525	CG	GLU	164	8.339	13.161	22.612	1.00	0.00
ATOM	2526	CD	GLU	164	9.761	13.370	23.079	1.00	0.00
ATOM	2527	OE1	GLU	164	10.105	14.507	23.464	1.00	0.00
ATOM	2528	OE2	GLU	164	10.544	12.395	23.055	1.00	0.00
ATOM	2531	H	GLU	164	5.539	14.587	21.768	1.00	0.00
ATOM	2532	HA	GLU	164	6.029	12.215	23.236	1.00	0.00
ATOM	2533	1HB	GLU	164	7.656	13.890	24.486	1.00	0.00
ATOM	2534	2HB	GLU	164	7.265	14.924	23.116	1.00	0.00
ATOM	2535	1HG	GLU	164	8.256	13.505	21.590	1.00	0.00
ATOM	2536	2HG	GLU	164	8.120	12.102	22.651	1.00	0.00
ATOM	2537	N	GLY	165	4.515	14.662	24.799	1.00	0.00
ATOM	2538	CA	GLY	165	3.731	14.955	25.982	1.00	0.00
ATOM	2539	C	GLY	165	2.485	14.095	26.038	1.00	0.00
ATOM	2540	O	GLY	165	1.903	13.885	27.104	1.00	0.00
ATOM	2541	H	GLY	165	4.558	15.317	24.065	1.00	0.00
ATOM	2542	1HA	GLY	165	3.441	15.995	25.965	1.00	0.00
ATOM	2543	2HA	GLY	165	4.330	14.768	26.860	1.00	0.00
ATOM	2544	N	ASN	166	2.091	13.591	24.875	1.00	0.00
ATOM	2545	CA	ASN	166	0.922	12.739	24.747	1.00	0.00
ATOM	2550	C	ASN	166	1.171	11.391	25.400	1.00	0.00
ATOM	2551	O	ASN	166	0.608	11.088	26.448	1.00	0.00
ATOM	2546	CB	ASN	166	0.581	12.523	23.270	1.00	0.00
ATOM	2547	CG	ASN	166	-0.833	12.032	23.050	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.104	10.832	23.093	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.742	12.958	22.803	1.00	0.00
ATOM	2552	H	ASN	166	2.613	13.802	24.070	1.00	0.00
ATOM	2553	HA	ASN	166	0.092	13.224	25.238	1.00	0.00
ATOM	2554	1HB	ASN	166	1.261	11.794	22.856	1.00	0.00
ATOM	2555	2HB	ASN	166	0.700	13.455	22.740	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.453	13.893	22.781	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.668	12.671	22.638	1.00	0.00
ATOM	2558	N	TRP	167	2.017	10.585	24.768	1.00	0.00
ATOM	2559	CA	TRP	167	2.331	9.255	25.275	1.00	0.00
ATOM	2570	C	TRP	167	2.910	9.307	26.685	1.00	0.00
ATOM	2571	O	TRP	167	2.789	8.345	27.434	1.00	0.00
ATOM	2560	CB	TRP	167	3.273	8.503	24.318	1.00	0.00
ATOM	2561	CG	TRP	167	4.710	8.937	24.371	1.00	0.00
ATOM	2562	CD1	TRP	167	5.305	9.885	23.594	1.00	0.00
ATOM	2563	CD2	TRP	167	5.736	8.424	25.232	1.00	0.00
ATOM	2564	NE1	TRP	167	6.632	10.003	23.925	1.00	0.00
ATOM	2565	CE2	TRP	167	6.921	9.119	24.928	1.00	0.00
ATOM	2566	CE3	TRP	167	5.767	7.450	26.235	1.00	0.00
ATOM	2567	CZ2	TRP	167	8.121	8.871	25.590	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.958	7.204	26.891	1.00	0.00
ATOM	2569	CH2	TRP	167	8.120	7.913	26.567	1.00	0.00
ATOM	2572	H	TRP	167	2.433	10.891	23.936	1.00	0.00
ATOM	2573	HA	TRP	167	1.399	8.711	25.323	1.00	0.00
ATOM	2574	1HB	TRP	167	2.923	8.642	23.304	1.00	0.00
ATOM	2575	2HB	TRP	167	3.242	7.451	24.555	1.00	0.00
ATOM	2576	HD1	TRP	167	4.792	10.456	22.834	1.00	0.00
ATOM	2577	HE1	TRP	167	7.270	10.624	23.510	1.00	0.00
ATOM	2578	HE3	TRP	167	4.880	6.893	26.499	1.00	0.00
ATOM	2579	HZ2	TRP	167	9.026	9.408	25.352	1.00	0.00
ATOM	2580	HZ3	TRP	167	7.000	6.454	27.668	1.00	0.00
ATOM	2581	HH2	TRP	167	9.031	7.688	27.104	1.00	0.00
ATOM	2582	N	ALA	168	3.521	10.427	27.047	1.00	0.00



ATOM	2583	CA	ALA	168	4.097	10.577	28.375	1.00	0.00
ATOM	2585	C	ALA	168	3.058	10.293	29.453	1.00	0.00
ATOM	2586	O	ALA	168	3.208	9.357	30.236	1.00	0.00
ATOM	2584	CB	ALA	168	4.677	11.973	28.555	1.00	0.00
ATOM	2587	H	ALA	168	3.583	11.170	26.409	1.00	0.00
ATOM	2588	HA	ALA	168	4.901	9.864	28.469	1.00	0.00
ATOM	2589	1HB	ALA	168	3.944	12.610	29.027	1.00	0.00
ATOM	2590	2HB	ALA	168	4.940	12.380	27.590	1.00	0.00
ATOM	2591	3HB	ALA	168	5.560	11.919	29.176	1.00	0.00
ATOM	2592	N	SER	169	2.017	11.110	29.491	1.00	0.00
ATOM	2593	CA	SER	169	0.952	10.967	30.477	1.00	0.00
ATOM	2596	C	SER	169	-0.159	10.011	30.019	1.00	0.00
ATOM	2597	O	SER	169	-0.893	9.466	30.843	1.00	0.00
ATOM	2594	CB	SER	169	0.375	12.348	30.785	1.00	0.00
ATOM	2595	OG	SER	169	1.343	13.360	30.543	1.00	0.00
ATOM	2598	H	SER	169	1.966	11.844	28.841	1.00	0.00
ATOM	2599	HA	SER	169	1.393	10.566	31.381	1.00	0.00
ATOM	2600	1HB	SER	169	0.077	12.391	31.822	1.00	0.00
ATOM	2601	2HB	SER	169	-0.482	12.529	30.154	1.00	0.00
ATOM	2602	HG	SER	169	1.061	13.905	29.801	1.00	0.00
ATOM	2603	N	VAL	170	-0.301	9.822	28.712	1.00	0.00
ATOM	2604	CA	VAL	170	-1.351	8.955	28.181	1.00	0.00
ATOM	2608	C	VAL	170	-0.984	7.477	28.314	1.00	0.00
ATOM	2609	O	VAL	170	-1.830	6.643	28.629	1.00	0.00
ATOM	2605	CB	VAL	170	-1.665	9.311	26.707	1.00	0.00
ATOM	2606	CG1	VAL	170	-2.358	8.172	25.976	1.00	0.00
ATOM	2607	CG2	VAL	170	-2.514	10.571	26.647	1.00	0.00
ATOM	2610	H	VAL	170	0.300	10.289	28.088	1.00	0.00
ATOM	2611	HA	VAL	170	-2.244	9.137	28.763	1.00	0.00
ATOM	2612	HB	VAL	170	-0.732	9.514	26.202	1.00	0.00
ATOM	2613	1HG1	VAL	170	-1.698	7.319	25.929	1.00	0.00
ATOM	2614	2HG1	VAL	170	-2.607	8.490	24.973	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.261	7.901	26.503	1.00	0.00
ATOM	2616	1HG2	VAL	170	-2.399	11.127	27.565	1.00	0.00
ATOM	2617	2HG2	VAL	170	-3.551	10.301	26.516	1.00	0.00
ATOM	2618	3HG2	VAL	170	-2.194	11.181	25.815	1.00	0.00
ATOM	2619	N	ARG	171	0.277	7.148	28.088	1.00	0.00
ATOM	2620	CA	ARG	171	0.718	5.767	28.198	1.00	0.00
ATOM	2628	C	ARG	171	0.809	5.345	29.661	1.00	0.00
ATOM	2629	O	ARG	171	0.720	4.158	29.977	1.00	0.00
ATOM	2621	CB	ARG	171	2.067	5.575	27.507	1.00	0.00
ATOM	2622	CG	ARG	171	2.259	4.200	26.892	1.00	0.00
ATOM	2623	CD	ARG	171	3.581	4.114	26.149	1.00	0.00
ATOM	2624	NE	ARG	171	4.721	4.074	27.065	1.00	0.00
ATOM	2625	CZ	ARG	171	5.935	3.634	26.741	1.00	0.00
ATOM	2626	NH1	ARG	171	6.189	3.210	25.508	1.00	0.00
ATOM	2627	NH2	ARG	171	6.899	3.631	27.654	1.00	0.00
ATOM	2630	H	ARG	171	0.927	7.847	27.849	1.00	0.00
ATOM	2631	HA	ARG	171	-0.018	5.148	27.707	1.00	0.00
ATOM	2632	1HB	ARG	171	2.853	5.736	28.230	1.00	0.00
ATOM	2633	2HB	ARG	171	2.158	6.311	26.721	1.00	0.00
ATOM	2634	1HG	ARG	171	1.452	4.009	26.199	1.00	0.00
ATOM	2635	2HG	ARG	171	2.248	3.460	27.678	1.00	0.00
ATOM	2636	1HD	ARG	171	3.675	4.979	25.506	1.00	0.00
ATOM	2637	2HD	ARG	171	3.583	3.218	25.546	1.00	0.00
ATOM	2638	HE	ARG	171	4.569	4.401	27.989	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.466	3.221	24.814	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.101	2.876	25.267	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.709	3.961	28.587	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.816	3.303	27.424	1.00	0.00
ATOM	2643	N	THR	172	0.979	6.321	30.549	1.00	0.00
ATOM	2644	CA	THR	172	1.082	6.046	31.976	1.00	0.00
ATOM	2648	C	THR	172	-0.289	5.930	32.626	1.00	0.00
ATOM	2649	O	THR	172	-0.446	5.236	33.628	1.00	0.00
ATOM	2645	CB	THR	172	1.885	7.140	32.703	1.00	0.00
ATOM	2646	OG1	THR	172	1.710	8.393	32.039	1.00	0.00
ATOM	2647	CG2	THR	172	3.365	6.786	32.758	1.00	0.00
ATOM	2650	H	THR	172	1.038	7.249	30.237	1.00	0.00
ATOM	2651	HA	THR	172	1.598	5.105	32.099	1.00	0.00
ATOM	2652	HB	THR	172	1.514	7.231	33.712	1.00	0.00
ATOM	2653	HG1	THR	172	2.474	8.568	31.465	1.00	0.00
ATOM	2654	1HG2	THR	172	3.497	5.749	32.492	1.00	0.00
ATOM	2655	2HG2	THR	172	3.739	6.953	33.757	1.00	0.00



ATOM	2656	3HG2	THR	172	3.910	7.408	32.062	1.00	0.00
ATOM	2657	N	VAL	173	-1.281	6.606	32.061	1.00	0.00
ATOM	2658	CA	VAL	173	-2.628	6.554	32.616	1.00	0.00
ATOM	2662	C	VAL	173	-3.231	5.156	32.432	1.00	0.00
ATOM	2663	O	VAL	173	-4.120	4.748	33.175	1.00	0.00
ATOM	2659	CB	VAL	173	-3.542	7.650	32.005	1.00	0.00
ATOM	2660	CG1	VAL	173	-4.241	7.179	30.741	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.556	8.132	33.032	1.00	0.00
ATOM	2664	H	VAL	173	-1.106	7.153	31.260	1.00	0.00
ATOM	2665	HA	VAL	173	-2.542	6.746	33.677	1.00	0.00
ATOM	2666	HB	VAL	173	-2.916	8.488	31.739	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.589	7.326	29.892	1.00	0.00
ATOM	2668	2HG1	VAL	173	-5.149	7.744	30.599	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.481	6.129	30.832	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.242	8.822	32.565	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.041	8.628	33.841	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.104	7.286	33.420	1.00	0.00
ATOM	2673	N	LEU	174	-2.712	4.419	31.452	1.00	0.00
ATOM	2674	CA	LEU	174	-3.172	3.058	31.180	1.00	0.00
ATOM	2679	C	LEU	174	-2.023	2.065	31.317	1.00	0.00
ATOM	2680	O	LEU	174	-1.901	1.120	30.537	1.00	0.00
ATOM	2675	CB	LEU	174	-3.783	2.963	29.780	1.00	0.00
ATOM	2676	CG	LEU	174	-4.562	4.197	29.345	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.370	4.459	27.861	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.038	4.044	29.674	1.00	0.00
ATOM	2681	H	LEU	174	-1.992	4.797	30.908	1.00	0.00
ATOM	2682	HA	LEU	174	-3.929	2.815	31.911	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.453	2.116	29.757	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.985	2.794	29.072	1.00	0.00
ATOM	2685	HG	LEU	174	-4.184	5.052	29.890	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.071	3.863	27.296	1.00	0.00
ATOM	2687	2HD1	LEU	174	-3.362	4.197	27.576	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.542	5.505	27.655	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.608	4.777	29.122	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.188	4.193	30.734	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.365	3.052	29.401	1.00	0.00
ATOM	2692	N	THR	175	-1.168	2.294	32.303	1.00	0.00
ATOM	2693	CA	THR	175	-0.012	1.431	32.544	1.00	0.00
ATOM	2697	C	THR	175	-0.420	-0.009	32.873	1.00	0.00
ATOM	2698	O	THR	175	0.366	-0.936	32.695	1.00	0.00
ATOM	2694	CB	THR	175	0.845	1.973	33.697	1.00	0.00
ATOM	2695	OG1	THR	175	0.044	2.817	34.532	1.00	0.00
ATOM	2696	CG2	THR	175	2.040	2.751	33.168	1.00	0.00
ATOM	2699	H	THR	175	-1.309	3.076	32.881	1.00	0.00
ATOM	2700	HA	THR	175	0.591	1.428	31.648	1.00	0.00
ATOM	2701	HB	THR	175	1.205	1.139	34.282	1.00	0.00
ATOM	2702	HG1	THR	175	0.229	3.742	34.328	1.00	0.00
ATOM	2703	1HG2	THR	175	1.709	3.708	32.793	1.00	0.00
ATOM	2704	2HG2	THR	175	2.509	2.193	32.371	1.00	0.00
ATOM	2705	3HG2	THR	175	2.752	2.904	33.967	1.00	0.00
ATOM	2706	N	GLY	176	-1.644	-0.191	33.359	1.00	0.00
ATOM	2707	CA	GLY	176	-2.116	-1.521	33.716	1.00	0.00
ATOM	2708	C	GLY	176	-2.642	-2.315	32.531	1.00	0.00
ATOM	2709	O	GLY	176	-3.182	-3.405	32.703	1.00	0.00
ATOM	2710	H	GLY	176	-2.229	0.585	33.488	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.905	-1.423	34.447	1.00	0.00
ATOM	2712	2HA	GLY	176	-1.299	-2.068	34.162	1.00	0.00
ATOM	2713	N	ALA	177	-2.481	-1.776	31.329	1.00	0.00
ATOM	2714	CA	ALA	177	-2.950	-2.443	30.115	1.00	0.00
ATOM	2716	C	ALA	177	-1.984	-3.533	29.651	1.00	0.00
ATOM	2717	O	ALA	177	-2.159	-4.111	28.580	1.00	0.00
ATOM	2715	CB	ALA	177	-3.160	-1.422	29.009	1.00	0.00
ATOM	2718	H	ALA	177	-2.042	-0.902	31.254	1.00	0.00
ATOM	2719	HA	ALA	177	-3.906	-2.901	30.330	1.00	0.00
ATOM	2720	1HB	ALA	177	-4.198	-1.125	28.986	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.890	-1.860	28.059	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.542	-0.556	29.194	1.00	0.00
ATOM	2723	N	VAL	178	-0.970	-3.819	30.456	1.00	0.00
ATOM	2724	CA	VAL	178	0.006	-4.847	30.115	1.00	0.00
ATOM	2728	C	VAL	178	-0.483	-6.226	30.560	1.00	0.00
ATOM	2729	O	VAL	178	0.102	-6.858	31.437	1.00	0.00
ATOM	2725	CB	VAL	178	1.392	-4.563	30.738	1.00	0.00
ATOM	2726	CG1	VAL	178	2.478	-5.351	30.016	1.00	0.00



ATOM	2727	CG2	VAL	178	1.707	-3.075	30.701	1.00	0.00
ATOM	2730	H	VAL	178	-0.880	-3.333	31.302	1.00	0.00
ATOM	2731	HA	VAL	178	0.114	-4.851	29.040	1.00	0.00
ATOM	2732	HB	VAL	178	1.373	-4.881	31.770	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.101	-4.672	29.453	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.020	-6.061	29.343	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.081	-5.879	30.741	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.619	-2.914	30.145	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.830	-2.707	31.709	1.00	0.00
ATOM	2738	3HG2	VAL	178	0.896	-2.548	30.222	1.00	0.00
ATOM	2739	N	ALA	179	-1.564	-6.685	29.946	1.00	0.00
ATOM	2740	CA	ALA	179	-2.138	-7.987	30.268	1.00	0.00
ATOM	2742	C	ALA	179	-1.761	-9.006	29.201	1.00	0.00
ATOM	2743	O	ALA	179	-2.338	-10.089	29.120	1.00	0.00
ATOM	2741	CB	ALA	179	-3.651	-7.886	30.390	1.00	0.00
ATOM	2744	H	ALA	179	-1.989	-6.131	29.254	1.00	0.00
ATOM	2745	HA	ALA	179	-1.739	-8.305	31.219	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.967	-6.885	30.138	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.948	-8.114	31.403	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.115	-8.590	29.712	1.00	0.00
ATOM	2749	N	LEU	180	-0.796	-8.636	28.376	1.00	0.00
ATOM	2750	CA	LEU	180	-0.334	-9.493	27.296	1.00	0.00
ATOM	2755	C	LEU	180	0.960	-10.203	27.682	1.00	0.00
ATOM	2756	O	LEU	180	1.255	-11.297	27.196	1.00	0.00
ATOM	2751	CB	LEU	180	-0.116	-8.654	26.033	1.00	0.00
ATOM	2752	CG	LEU	180	-1.021	-8.988	24.845	1.00	0.00
ATOM	2753	CD1	LEU	180	-2.422	-9.354	25.310	1.00	0.00
ATOM	2754	CD2	LEU	180	-1.070	-7.819	23.873	1.00	0.00
ATOM	2757	H	LEU	180	-0.387	-7.755	28.489	1.00	0.00
ATOM	2758	HA	LEU	180	-1.095	-10.231	27.104	1.00	0.00
ATOM	2759	1HB	LEU	180	0.910	-8.780	25.718	1.00	0.00
ATOM	2760	2HB	LEU	180	-0.267	-7.616	26.290	1.00	0.00
ATOM	2761	HG	LEU	180	-0.613	-9.839	24.320	1.00	0.00
ATOM	2762	1HD1	LEU	180	-2.868	-10.039	24.604	1.00	0.00
ATOM	2763	2HD1	LEU	180	-3.024	-8.459	25.373	1.00	0.00
ATOM	2764	3HD1	LEU	180	-2.368	-9.821	26.281	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.099	-7.593	23.633	1.00	0.00
ATOM	2766	2HD2	LEU	180	-0.539	-8.078	22.968	1.00	0.00
ATOM	2767	3HD2	LEU	180	-0.608	-6.954	24.325	1.00	0.00
ATOM	2768	N	GLY	181	1.733	-9.563	28.548	1.00	0.00
ATOM	2769	CA	GLY	181	2.994	-10.125	28.980	1.00	0.00
ATOM	2770	C	GLY	181	2.837	-11.122	30.104	1.00	0.00
ATOM	2771	O	GLY	181	2.803	-10.751	31.276	1.00	0.00
ATOM	2772	H	GLY	181	1.451	-8.694	28.888	1.00	0.00
ATOM	2773	1HA	GLY	181	3.635	-9.322	29.316	1.00	0.00
ATOM	2774	2HA	GLY	181	3.461	-10.617	28.141	1.00	0.00
ATOM	2775	N	ALA	182	2.756	-12.393	29.745	1.00	0.00
ATOM	2776	CA	ALA	182	2.623	-13.454	30.726	1.00	0.00
ATOM	2778	C	ALA	182	3.997	-14.011	31.078	1.00	0.00
ATOM	2779	O	ALA	182	5.023	-13.426	30.716	1.00	0.00
ATOM	2777	CB	ALA	182	1.709	-14.552	30.197	1.00	0.00
ATOM	2780	H	ALA	182	2.802	-12.625	28.793	1.00	0.00
ATOM	2781	HA	ALA	182	2.175	-13.035	31.615	1.00	0.00
ATOM	2782	1HB	ALA	182	1.076	-14.152	29.420	1.00	0.00
ATOM	2783	2HB	ALA	182	1.096	-14.928	31.003	1.00	0.00
ATOM	2784	3HB	ALA	182	2.308	-15.357	29.796	1.00	0.00
ATOM	2785	N	LEU	183	4.012	-15.138	31.770	1.00	0.00
ATOM	2790	CA	LEU	183	5.252	-15.788	32.165	1.00	0.00
ATOM	2791	C	LEU	183	5.032	-17.292	32.225	1.00	0.00
ATOM	2792	O	LEU	183	6.028	-18.046	32.227	1.00	0.00
ATOM	2786	CB	LEU	183	5.727	-15.267	33.525	1.00	0.00
ATOM	2787	CG	LEU	183	6.615	-14.022	33.470	1.00	0.00
ATOM	2788	CD1	LEU	183	6.119	-12.970	34.448	1.00	0.00
ATOM	2789	CD2	LEU	183	8.062	-14.386	33.766	1.00	0.00
ATOM	2793	OXT	LEU	183	3.854	-17.713	32.261	1.00	0.00
ATOM	2794	H	LEU	183	3.162	-15.558	32.018	1.00	0.00
ATOM	2795	HA	LEU	183	5.999	-15.569	31.418	1.00	0.00
ATOM	2796	1HB	LEU	183	6.279	-16.052	34.017	1.00	0.00
ATOM	2797	2HB	LEU	183	4.856	-15.034	34.123	1.00	0.00
ATOM	2798	HG	LEU	183	6.572	-13.600	32.475	1.00	0.00
ATOM	2799	1HD1	LEU	183	6.085	-13.391	35.442	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.129	-12.648	34.160	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.790	-12.123	34.438	1.00	0.00



ATOM	2802	1HD2	LEU	183	8.662	-13.488	33.793	1.00	0.00
ATOM	2803	2HD2	LEU	183	8.433	-15.043	32.993	1.00	0.00
ATOM	2804	3HD2	LEU	183	8.118	-14.886	34.721	1.00	0.00
ENDMDL									
MODEL									
	10								
ATOM	3	N	GLY	-4	-21.489	26.513	2.112	1.00	0.00
ATOM	4	CA	GLY	-4	-22.078	27.213	0.947	1.00	0.00
ATOM	1	C	GLY	-4	-22.457	26.244	-0.152	1.00	0.00
ATOM	2	O	GLY	-4	-22.019	25.094	-0.135	1.00	0.00
ATOM	5	1HA	GLY	-4	-22.962	27.745	1.265	1.00	0.00
ATOM	6	2HA	GLY	-4	-21.360	27.921	0.561	1.00	0.00
ATOM	7	1HT	GLY	-4	-21.830	26.940	3.000	1.00	0.00
ATOM	8	2HT	GLY	-4	-20.450	26.580	2.083	1.00	0.00
ATOM	9	3HT	GLY	-4	-21.757	25.505	2.097	1.00	0.00
ATOM	10	N	PRO	-3	-23.276	26.678	-1.122	1.00	0.00
ATOM	11	CA	PRO	-3	-23.713	25.826	-2.234	1.00	0.00
ATOM	15	C	PRO	-3	-22.557	25.433	-3.150	1.00	0.00
ATOM	16	O	PRO	-3	-21.826	26.291	-3.648	1.00	0.00
ATOM	12	CB	PRO	-3	-24.716	26.698	-3.001	1.00	0.00
ATOM	13	CG	PRO	-3	-25.052	27.824	-2.083	1.00	0.00
ATOM	14	CD	PRO	-3	-23.847	28.029	-1.215	1.00	0.00
ATOM	17	HA	PRO	-3	-24.206	24.933	-1.877	1.00	0.00
ATOM	18	1HB	PRO	-3	-25.591	26.113	-3.241	1.00	0.00
ATOM	19	2HB	PRO	-3	-24.258	27.056	-3.911	1.00	0.00
ATOM	20	1HG	PRO	-3	-25.908	27.561	-1.480	1.00	0.00
ATOM	21	2HG	PRO	-3	-25.256	28.717	-2.657	1.00	0.00
ATOM	22	1HD	PRO	-3	-24.138	28.391	-0.241	1.00	0.00
ATOM	23	2HD	PRO	-3	-23.153	28.711	-1.685	1.00	0.00
ATOM	24	N	LEU	-2	-22.395	24.135	-3.366	1.00	0.00
ATOM	25	CA	LEU	-2	-21.329	23.630	-4.218	1.00	0.00
ATOM	30	C	LEU	-2	-21.748	23.650	-5.683	1.00	0.00
ATOM	31	O	LEU	-2	-21.157	24.356	-6.499	1.00	0.00
ATOM	26	CB	LEU	-2	-20.943	22.208	-3.804	1.00	0.00
ATOM	27	CG	LEU	-2	-20.258	22.092	-2.441	1.00	0.00
ATOM	28	CD1	LEU	-2	-20.198	20.640	-1.997	1.00	0.00
ATOM	29	CD2	LEU	-2	-18.860	22.689	-2.492	1.00	0.00
ATOM	32	H	LEU	-2	-23.008	23.498	-2.934	1.00	0.00
ATOM	33	HA	LEU	-2	-20.472	24.275	-4.093	1.00	0.00
ATOM	34	1HB	LEU	-2	-20.277	21.806	-4.552	1.00	0.00
ATOM	35	2HB	LEU	-2	-21.840	21.608	-3.785	1.00	0.00
ATOM	36	HG	LEU	-2	-20.831	22.642	-1.710	1.00	0.00
ATOM	37	1HD1	LEU	-2	-19.286	20.471	-1.443	1.00	0.00
ATOM	38	2HD1	LEU	-2	-20.218	19.997	-2.863	1.00	0.00
ATOM	39	3HD1	LEU	-2	-21.048	20.422	-1.366	1.00	0.00
ATOM	40	1HD2	LEU	-2	-18.927	23.748	-2.692	1.00	0.00
ATOM	41	2HD2	LEU	-2	-18.291	22.210	-3.274	1.00	0.00
ATOM	42	3HD2	LEU	-2	-18.368	22.533	-1.543	1.00	0.00
ATOM	43	N	GLY	-1	-22.772	22.878	-6.011	1.00	0.00
ATOM	44	CA	GLY	-1	-23.252	22.822	-7.377	1.00	0.00
ATOM	45	C	GLY	-1	-24.285	21.734	-7.566	1.00	0.00
ATOM	46	O	GLY	-1	-24.641	21.040	-6.610	1.00	0.00
ATOM	47	H	GLY	-1	-23.209	22.335	-5.320	1.00	0.00
ATOM	48	1HA	GLY	-1	-22.417	22.631	-8.034	1.00	0.00
ATOM	49	2HA	GLY	-1	-23.692	23.774	-7.632	1.00	0.00
ATOM	50	N	SER	0	-24.768	21.585	-8.788	1.00	0.00
ATOM	51	CA	SER	0	-25.764	20.576	-9.099	1.00	0.00
ATOM	54	C	SER	0	-25.098	19.235	-9.394	1.00	0.00
ATOM	55	O	SER	0	-24.072	19.188	-10.082	1.00	0.00
ATOM	52	CB	SER	0	-26.602	21.025	-10.297	1.00	0.00
ATOM	53	OG	SER	0	-26.148	22.274	-10.796	1.00	0.00
ATOM	56	H	SER	0	-24.449	22.171	-9.507	1.00	0.00
ATOM	57	HA	SER	0	-26.408	20.466	-8.240	1.00	0.00
ATOM	58	1HB	SER	0	-27.634	21.126	-9.995	1.00	0.00
ATOM	59	2HB	SER	0	-26.528	20.288	-11.082	1.00	0.00
ATOM	60	HG	SER	0	-26.339	22.325	-11.746	1.00	0.00
ATOM	61	N	MET	1	-25.694	18.160	-8.864	1.00	0.00
ATOM	62	CA	MET	1	-25.195	16.791	-9.043	1.00	0.00
ATOM	67	C	MET	1	-23.940	16.534	-8.207	1.00	0.00
ATOM	68	O	MET	1	-23.116	17.423	-7.998	1.00	0.00
ATOM	63	CB	MET	1	-24.919	16.481	-10.521	1.00	0.00
ATOM	64	CG	MET	1	-26.162	16.099	-11.308	1.00	0.00
ATOM	65	SD	MET	1	-26.549	17.287	-12.612	1.00	0.00
ATOM	66	CE	MET	1	-27.520	16.266	-13.718	1.00	0.00



ATOM	69	H	MET	1	-26.501	18.295	-8.329	1.00	0.00
ATOM	70	HA	MET	1	-25.971	16.124	-8.693	1.00	0.00
ATOM	71	1HB	MET	1	-24.217	15.661	-10.578	1.00	0.00
ATOM	72	2HB	MET	1	-24.479	17.352	-10.982	1.00	0.00
ATOM	73	1HG	MET	1	-27.000	16.046	-10.628	1.00	0.00
ATOM	74	2HG	MET	1	-26.004	15.132	-11.759	1.00	0.00
ATOM	75	1HE	MET	1	-28.556	16.288	-13.411	1.00	0.00
ATOM	76	2HE	MET	1	-27.157	15.249	-13.682	1.00	0.00
ATOM	77	3HE	MET	1	-27.435	16.643	-14.727	1.00	0.00
ATOM	78	N	ALA	2	-23.807	15.306	-7.728	1.00	0.00
ATOM	79	CA	ALA	2	-22.667	14.912	-6.918	1.00	0.00
ATOM	81	C	ALA	2	-22.202	13.513	-7.302	1.00	0.00
ATOM	82	O	ALA	2	-23.017	12.620	-7.530	1.00	0.00
ATOM	80	CB	ALA	2	-23.023	14.972	-5.439	1.00	0.00
ATOM	83	H	ALA	2	-24.505	14.636	-7.926	1.00	0.00
ATOM	84	HA	ALA	2	-21.866	15.613	-7.103	1.00	0.00
ATOM	85	1HB	ALA	2	-23.909	14.380	-5.258	1.00	0.00
ATOM	86	2HB	ALA	2	-23.213	15.996	-5.156	1.00	0.00
ATOM	87	3HB	ALA	2	-22.203	14.583	-4.855	1.00	0.00
ATOM	88	N	THR	3	-20.893	13.329	-7.382	1.00	0.00
ATOM	89	CA	THR	3	-20.323	12.043	-7.750	1.00	0.00
ATOM	93	C	THR	3	-19.861	11.268	-6.515	1.00	0.00
ATOM	94	O	THR	3	-19.217	11.829	-5.625	1.00	0.00
ATOM	90	CB	THR	3	-19.135	12.230	-8.724	1.00	0.00
ATOM	91	OG1	THR	3	-17.941	12.528	-7.990	1.00	0.00
ATOM	92	CG2	THR	3	-19.404	13.363	-9.702	1.00	0.00
ATOM	95	H	THR	3	-20.291	14.077	-7.199	1.00	0.00
ATOM	96	HA	THR	3	-21.088	11.473	-8.255	1.00	0.00
ATOM	97	HB	THR	3	-18.994	11.317	-9.278	1.00	0.00
ATOM	98	HG1	THR	3	-18.100	12.386	-7.049	1.00	0.00
ATOM	99	1HG2	THR	3	-20.345	13.832	-9.460	1.00	0.00
ATOM	100	2HG2	THR	3	-19.446	12.968	-10.707	1.00	0.00
ATOM	101	3HG2	THR	3	-18.610	14.090	-9.634	1.00	0.00
ATOM	102	N	PRO	4	-20.188	9.967	-6.443	1.00	0.00
ATOM	103	CA	PRO	4	-19.810	9.110	-5.317	1.00	0.00
ATOM	107	C	PRO	4	-18.331	8.729	-5.356	1.00	0.00
ATOM	108	O	PRO	4	-17.813	8.315	-6.395	1.00	0.00
ATOM	104	CB	PRO	4	-20.686	7.858	-5.492	1.00	0.00
ATOM	105	CG	PRO	4	-21.618	8.159	-6.623	1.00	0.00
ATOM	106	CD	PRO	4	-20.952	9.222	-7.447	1.00	0.00
ATOM	109	HA	PRO	4	-20.034	9.580	-4.370	1.00	0.00
ATOM	110	1HB	PRO	4	-21.228	7.669	-4.577	1.00	0.00
ATOM	111	2HB	PRO	4	-20.056	7.010	-5.718	1.00	0.00
ATOM	112	1HG	PRO	4	-22.558	8.522	-6.235	1.00	0.00
ATOM	113	2HG	PRO	4	-21.774	7.270	-7.215	1.00	0.00
ATOM	114	1HD	PRO	4	-21.689	9.854	-7.921	1.00	0.00
ATOM	115	2HD	PRO	4	-20.299	8.777	-8.184	1.00	0.00
ATOM	116	N	ALA	5	-17.650	8.869	-4.224	1.00	0.00
ATOM	117	CA	ALA	5	-16.234	8.542	-4.142	1.00	0.00
ATOM	119	C	ALA	5	-15.949	7.644	-2.943	1.00	0.00
ATOM	120	O	ALA	5	-16.239	8.004	-1.800	1.00	0.00
ATOM	118	CB	ALA	5	-15.400	9.813	-4.062	1.00	0.00
ATOM	121	H	ALA	5	-18.112	9.203	-3.426	1.00	0.00
ATOM	122	HA	ALA	5	-15.961	8.015	-5.046	1.00	0.00
ATOM	123	1HB	ALA	5	-14.846	9.938	-4.981	1.00	0.00
ATOM	124	2HB	ALA	5	-14.711	9.740	-3.233	1.00	0.00
ATOM	125	3HB	ALA	5	-16.051	10.662	-3.916	1.00	0.00
ATOM	126	N	SER	6	-15.380	6.478	-3.212	1.00	0.00
ATOM	127	CA	SER	6	-15.050	5.524	-2.165	1.00	0.00
ATOM	130	C	SER	6	-13.628	5.751	-1.654	1.00	0.00
ATOM	131	O	SER	6	-12.655	5.593	-2.395	1.00	0.00
ATOM	128	CB	SER	6	-15.208	4.103	-2.701	1.00	0.00
ATOM	129	OG	SER	6	-16.257	4.044	-3.657	1.00	0.00
ATOM	132	H	SER	6	-15.174	6.249	-4.142	1.00	0.00
ATOM	133	HA	SER	6	-15.743	5.672	-1.349	1.00	0.00
ATOM	134	1HB	SER	6	-15.441	3.435	-1.886	1.00	0.00
ATOM	135	2HB	SER	6	-14.286	3.792	-3.172	1.00	0.00
ATOM	136	HG	SER	6	-17.030	4.503	-3.307	1.00	0.00
ATOM	137	N	ALA	7	-13.519	6.132	-0.388	1.00	0.00
ATOM	138	CA	ALA	7	-12.226	6.394	0.230	1.00	0.00
ATOM	140	C	ALA	7	-11.800	5.231	1.124	1.00	0.00
ATOM	141	O	ALA	7	-12.647	4.518	1.666	1.00	0.00
ATOM	139	CB	ALA	7	-12.287	7.689	1.027	1.00	0.00



ATOM	142	H	ALA	7	-14.332	6.246	0.147	1.00	0.00
ATOM	143	HA	ALA	7	-11.498	6.516	-0.558	1.00	0.00
ATOM	144	1HB	ALA	7	-13.056	7.613	1.782	1.00	0.00
ATOM	145	2HB	ALA	7	-12.515	8.509	0.363	1.00	0.00
ATOM	146	3HB	ALA	7	-11.333	7.865	1.502	1.00	0.00
ATOM	147	N	PRO	8	-10.479	5.022	1.282	1.00	0.00
ATOM	148	CA	PRO	8	-9.930	3.940	2.111	1.00	0.00
ATOM	152	C	PRO	8	-10.248	4.133	3.589	1.00	0.00
ATOM	153	O	PRO	8	-9.705	5.024	4.243	1.00	0.00
ATOM	149	CB	PRO	8	-8.414	4.026	1.878	1.00	0.00
ATOM	150	CG	PRO	8	-8.253	4.863	0.656	1.00	0.00
ATOM	151	CD	PRO	8	-9.408	5.818	0.665	1.00	0.00
ATOM	154	HA	PRO	8	-10.293	2.973	1.792	1.00	0.00
ATOM	155	1HB	PRO	8	-8.013	3.034	1.732	1.00	0.00
ATOM	156	2HB	PRO	8	-7.945	4.486	2.735	1.00	0.00
ATOM	157	1HG	PRO	8	-8.289	4.240	-0.226	1.00	0.00
ATOM	158	2HG	PRO	8	-7.318	5.401	0.700	1.00	0.00
ATOM	159	1HD	PRO	8	-9.670	6.108	-0.341	1.00	0.00
ATOM	160	2HD	PRO	8	-9.176	6.688	1.264	1.00	0.00
ATOM	161	N	ASP	9	-11.137	3.297	4.102	1.00	0.00
ATOM	162	CA	ASP	9	-11.540	3.368	5.502	1.00	0.00
ATOM	167	C	ASP	9	-10.548	2.613	6.393	1.00	0.00
ATOM	168	O	ASP	9	-9.496	2.163	5.926	1.00	0.00
ATOM	163	CB	ASP	9	-12.955	2.795	5.673	1.00	0.00
ATOM	164	CG	ASP	9	-13.655	3.306	6.920	1.00	0.00
ATOM	165	OD1	ASP	9	-13.517	2.665	7.985	1.00	0.00
ATOM	166	OD2	ASP	9	-14.343	4.344	6.846	1.00	0.00
ATOM	169	H	ASP	9	-11.537	2.616	3.524	1.00	0.00
ATOM	170	HA	ASP	9	-11.546	4.408	5.791	1.00	0.00
ATOM	171	1HB	ASP	9	-12.891	1.718	5.734	1.00	0.00
ATOM	172	2HB	ASP	9	-13.549	3.067	4.814	1.00	0.00
ATOM	173	N	THR	10	-10.898	2.470	7.665	1.00	0.00
ATOM	174	CA	THR	10	-10.078	1.775	8.649	1.00	0.00
ATOM	178	C	THR	10	-9.739	0.354	8.207	1.00	0.00
ATOM	179	O	THR	10	-8.699	-0.179	8.573	1.00	0.00
ATOM	175	CB	THR	10	-10.782	1.732	10.019	1.00	0.00
ATOM	176	OG1	THR	10	-11.860	2.682	10.040	1.00	0.00
ATOM	177	CG2	THR	10	-9.804	2.049	11.145	1.00	0.00
ATOM	180	H	THR	10	-11.754	2.848	7.959	1.00	0.00
ATOM	181	HA	THR	10	-9.158	2.332	8.763	1.00	0.00
ATOM	182	HB	THR	10	-11.181	0.741	10.176	1.00	0.00
ATOM	183	HG1	THR	10	-12.525	2.444	9.370	1.00	0.00
ATOM	184	1HG2	THR	10	-9.684	3.120	11.227	1.00	0.00
ATOM	185	2HG2	THR	10	-8.846	1.595	10.932	1.00	0.00
ATOM	186	3HG2	THR	10	-10.189	1.657	12.076	1.00	0.00
ATOM	187	N	ARG	11	-10.607	-0.247	7.401	1.00	0.00
ATOM	188	CA	ARG	11	-10.377	-1.599	6.899	1.00	0.00
ATOM	196	C	ARG	11	-9.179	-1.611	5.957	1.00	0.00
ATOM	197	O	ARG	11	-8.356	-2.523	5.996	1.00	0.00
ATOM	189	CB	ARG	11	-11.630	-2.120	6.185	1.00	0.00
ATOM	190	CG	ARG	11	-11.438	-3.462	5.494	1.00	0.00
ATOM	191	CD	ARG	11	-12.750	-3.992	4.937	1.00	0.00
ATOM	192	NE	ARG	11	-12.767	-3.985	3.473	1.00	0.00
ATOM	193	CZ	ARG	11	-13.878	-3.876	2.737	1.00	0.00
ATOM	194	NH1	ARG	11	-15.059	-3.706	3.324	1.00	0.00
ATOM	195	NH2	ARG	11	-13.807	-3.938	1.413	1.00	0.00
ATOM	198	H	ARG	11	-11.417	0.235	7.130	1.00	0.00
ATOM	199	HA	ARG	11	-10.152	-2.238	7.741	1.00	0.00
ATOM	200	1HB	ARG	11	-11.929	-1.397	5.440	1.00	0.00
ATOM	201	2HB	ARG	11	-12.424	-2.224	6.909	1.00	0.00
ATOM	202	1HG	ARG	11	-11.046	-4.172	6.209	1.00	0.00
ATOM	203	2HG	ARG	11	-10.736	-3.341	4.683	1.00	0.00
ATOM	204	1HD	ARG	11	-13.557	-3.372	5.300	1.00	0.00
ATOM	205	2HD	ARG	11	-12.891	-5.005	5.283	1.00	0.00
ATOM	206	HE	ARG	11	-11.901	-4.084	3.015	1.00	0.00
ATOM	207	1HH1	ARG	11	-15.128	-3.658	4.324	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.897	-3.628	2.765	1.00	0.00
ATOM	209	1HH2	ARG	11	-12.919	-4.072	0.955	1.00	0.00
ATOM	210	2HH2	ARG	11	-14.645	-3.856	0.853	1.00	0.00
ATOM	211	N	ALA	12	-9.069	-0.583	5.131	1.00	0.00
ATOM	212	CA	ALA	12	-7.953	-0.483	4.211	1.00	0.00
ATOM	214	C	ALA	12	-6.694	-0.081	4.971	1.00	0.00
ATOM	215	O	ALA	12	-5.588	-0.507	4.642	1.00	0.00



ATOM	213	CB	ALA	12	-8.259	0.516	3.107	1.00	0.00
ATOM	216	H	ALA	12	-9.738	0.135	-5.154	1.00	0.00
ATOM	217	HA	ALA	12	-7.804	-1.457	3.762	1.00	0.00
ATOM	218	1HB	ALA	12	-9.299	0.434	2.824	1.00	0.00
ATOM	219	2HB	ALA	12	-7.636	0.307	2.249	1.00	0.00
ATOM	220	3HB	ALA	12	-8.060	1.516	3.461	1.00	0.00
ATOM	221	N	LEU	13	-6.877	0.743	5.998	1.00	0.00
ATOM	222	CA	LEU	13	-5.761	1.208	6.811	1.00	0.00
ATOM	227	C	LEU	13	-5.227	0.092	7.714	1.00	0.00
ATOM	228	O	LEU	13	-4.016	-0.069	7.854	1.00	0.00
ATOM	223	CB	LEU	13	-6.184	2.432	7.626	1.00	0.00
ATOM	224	CG	LEU	13	-5.404	2.673	8.917	1.00	0.00
ATOM	225	CD1	LEU	13	-4.118	3.431	8.627	1.00	0.00
ATOM	226	CD2	LEU	13	-6.263	3.435	9.913	1.00	0.00
ATOM	229	H	LEU	13	-7.790	1.050	6.213	1.00	0.00
ATOM	230	HA	LEU	13	-4.971	1.503	6.135	1.00	0.00
ATOM	231	1HB	LEU	13	-7.229	2.328	7.876	1.00	0.00
ATOM	232	2HB	LEU	13	-6.065	3.304	6.997	1.00	0.00
ATOM	233	HG	LEU	13	-5.141	1.722	9.356	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.521	3.485	9.527	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.356	4.429	8.293	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.562	2.916	7.858	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.697	3.609	10.816	1.00	0.00
ATOM	238	2HD2	LEU	13	-7.145	2.857	10.145	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.556	4.382	9.485	1.00	0.00
ATOM	240	N	VAL	14	-6.125	-0.689	8.310	1.00	0.00
ATOM	241	CA	VAL	14	-5.710	-1.791	9.175	1.00	0.00
ATOM	245	C	VAL	14	-4.965	-2.841	8.349	1.00	0.00
ATOM	246	O	VAL	14	-3.987	-3.429	8.810	1.00	0.00
ATOM	242	CB	VAL	14	-6.904	-2.441	9.937	1.00	0.00
ATOM	243	CG1	VAL	14	-7.738	-3.340	9.035	1.00	0.00
ATOM	244	CG2	VAL	14	-6.404	-3.227	11.141	1.00	0.00
ATOM	247	H	VAL	14	-7.083	-0.525	8.162	1.00	0.00
ATOM	248	HA	VAL	14	-5.024	-1.385	9.907	1.00	0.00
ATOM	249	HB	VAL	14	-7.545	-1.651	10.300	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.401	-3.941	9.640	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.084	-3.985	8.467	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.319	-2.732	8.359	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.007	-4.115	11.267	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.476	-2.614	12.027	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.374	-3.512	10.983	1.00	0.00
ATOM	256	N	ALA	15	-5.424	-3.048	7.117	1.00	0.00
ATOM	257	CA	ALA	15	-4.790	-4.004	6.217	1.00	0.00
ATOM	259	C	ALA	15	-3.434	-3.479	5.753	1.00	0.00
ATOM	260	O	ALA	15	-2.545	-4.254	5.402	1.00	0.00
ATOM	258	CB	ALA	15	-5.689	-4.284	5.023	1.00	0.00
ATOM	261	H	ALA	15	-6.206	-2.537	6.803	1.00	0.00
ATOM	262	HA	ALA	15	-4.644	-4.928	6.759	1.00	0.00
ATOM	263	1HB	ALA	15	-6.681	-3.906	5.222	1.00	0.00
ATOM	264	2HB	ALA	15	-5.739	-5.350	4.850	1.00	0.00
ATOM	265	3HB	ALA	15	-5.288	-3.797	4.146	1.00	0.00
ATOM	266	N	ASP	16	-3.290	-2.158	5.759	1.00	0.00
ATOM	267	CA	ASP	16	-2.052	-1.503	5.344	1.00	0.00
ATOM	272	C	ASP	16	-0.950	-1.705	6.378	1.00	0.00
ATOM	273	O	ASP	16	0.047	-2.371	6.106	1.00	0.00
ATOM	268	CB	ASP	16	-2.308	-0.006	5.118	1.00	0.00
ATOM	269	CG	ASP	16	-1.078	0.871	5.315	1.00	0.00
ATOM	270	OD1	ASP	16	-0.100	0.707	4.563	1.00	0.00
ATOM	271	OD2	ASP	16	-1.120	1.759	6.196	1.00	0.00
ATOM	274	H	ASP	16	-4.044	-1.601	6.053	1.00	0.00
ATOM	275	HA	ASP	16	-1.738	-1.948	4.413	1.00	0.00
ATOM	276	1HB	ASP	16	-3.074	0.323	5.806	1.00	0.00
ATOM	277	2HB	ASP	16	-2.660	0.137	4.109	1.00	0.00
ATOM	278	N	PHE	17	-1.136	-1.121	7.558	1.00	0.00
ATOM	279	CA	PHE	17	-0.155	-1.217	8.634	1.00	0.00
ATOM	287	C	PHE	17	0.198	-2.664	8.960	1.00	0.00
ATOM	288	O	PHE	17	1.374	-3.031	8.997	1.00	0.00
ATOM	280	CB	PHE	17	-0.666	-0.521	9.893	1.00	0.00
ATOM	281	CG	PHE	17	0.437	-0.076	10.813	1.00	0.00
ATOM	282	CD1	PHE	17	1.504	0.666	10.333	1.00	0.00
ATOM	283	CD2	PHE	17	0.404	-0.401	12.159	1.00	0.00
ATOM	284	CE1	PHE	17	2.516	1.076	11.179	1.00	0.00
ATOM	285	CE2	PHE	17	1.412	0.007	13.010	1.00	0.00



ATOM	286	CZ	PHE	17	2.470	0.747	12.520	1.00	0.00
ATOM	289	H	PHE	17	-1.954	-0.598	7.701	1.00	0.00
ATOM	290	HA	PHE	17	0.740	-0.715	8.303	1.00	0.00
ATOM	291	1HB	PHE	17	-1.304	-1.199	10.440	1.00	0.00
ATOM	292	2HB	PHE	17	-1.234	0.352	9.609	1.00	0.00
ATOM	293	HD1	PHE	17	-0.423	-0.981	12.544	1.00	0.00
ATOM	294	HD2	PHE	17	1.541	0.923	9.285	1.00	0.00
ATOM	295	HE1	PHE	17	1.375	-0.253	14.058	1.00	0.00
ATOM	296	HE2	PHE	17	3.343	1.654	10.793	1.00	0.00
ATOM	297	HZ	PHE	17	3.260	1.068	13.182	1.00	0.00
ATOM	298	N	VAL	18	-0.818	-3.480	9.198	1.00	0.00
ATOM	299	CA	VAL	18	-0.596	-4.881	9.522	1.00	0.00
ATOM	303	C	VAL	18	0.016	-5.613	8.332	1.00	0.00
ATOM	304	O	VAL	18	0.939	-6.407	8.491	1.00	0.00
ATOM	300	CB	VAL	18	-1.911	-5.573	9.953	1.00	0.00
ATOM	301	CG1	VAL	18	-1.713	-7.068	10.147	1.00	0.00
ATOM	302	CG2	VAL	18	-2.450	-4.939	11.227	1.00	0.00
ATOM	305	H	VAL	18	-1.736	-3.133	9.155	1.00	0.00
ATOM	306	HA	VAL	18	0.100	-4.924	10.349	1.00	0.00
ATOM	307	HB	VAL	18	-2.641	-5.429	9.171	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.977	-7.430	9.445	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.650	-7.579	9.982	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.373	-7.259	11.155	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.691	-3.903	11.041	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.703	-5.000	12.005	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.340	-5.465	11.542	1.00	0.00
ATOM	314	N	GLY	19	-0.489	-5.322	7.141	1.00	0.00
ATOM	315	CA	GLY	19	0.031	-5.951	5.942	1.00	0.00
ATOM	316	C	GLY	19	1.495	-5.640	5.723	1.00	0.00
ATOM	317	O	GLY	19	2.299	-6.544	5.531	1.00	0.00
ATOM	318	H	GLY	19	-1.213	-4.662	7.071	1.00	0.00
ATOM	319	1HA	GLY	19	-0.533	-5.599	5.090	1.00	0.00
ATOM	320	2HA	GLY	19	-0.092	-7.020	6.028	1.00	0.00
ATOM	321	N	TYR	20	1.829	-4.361	5.753	1.00	0.00
ATOM	322	CA	TYR	20	3.196	-3.892	5.557	1.00	0.00
ATOM	331	C	TYR	20	4.145	-4.500	6.590	1.00	0.00
ATOM	332	O	TYR	20	5.234	-4.960	6.244	1.00	0.00
ATOM	323	CB	TYR	20	3.210	-2.359	5.635	1.00	0.00
ATOM	324	CG	TYR	20	4.577	-1.726	5.791	1.00	0.00
ATOM	325	CD1	TYR	20	5.484	-1.700	4.738	1.00	0.00
ATOM	326	CD2	TYR	20	4.948	-1.125	6.990	1.00	0.00
ATOM	327	CE1	TYR	20	6.722	-1.100	4.876	1.00	0.00
ATOM	328	CE2	TYR	20	6.181	-0.519	7.133	1.00	0.00
ATOM	329	CZ	TYR	20	7.064	-0.510	6.075	1.00	0.00
ATOM	330	OH	TYR	20	8.287	0.108	6.215	1.00	0.00
ATOM	333	H	TYR	20	1.122	-3.694	5.903	1.00	0.00
ATOM	334	HA	TYR	20	3.511	-4.196	4.569	1.00	0.00
ATOM	335	1HB	TYR	20	2.607	-2.052	6.478	1.00	0.00
ATOM	336	2HB	TYR	20	2.773	-1.963	4.733	1.00	0.00
ATOM	337	HD1	TYR	20	4.256	-1.136	7.819	1.00	0.00
ATOM	338	HD2	TYR	20	5.212	-2.164	3.800	1.00	0.00
ATOM	339	HE1	TYR	20	6.450	-0.059	8.071	1.00	0.00
ATOM	340	HE2	TYR	20	7.414	-1.093	4.046	1.00	0.00
ATOM	341	HH	TYR	20	8.977	-0.431	5.799	1.00	0.00
ATOM	342	N	LYS	21	3.724	-4.500	7.852	1.00	0.00
ATOM	343	CA	LYS	21	4.534	-5.046	8.938	1.00	0.00
ATOM	349	C	LYS	21	4.745	-6.549	8.771	1.00	0.00
ATOM	350	O	LYS	21	5.866	-7.045	8.884	1.00	0.00
ATOM	344	CB	LYS	21	3.870	-4.756	10.291	1.00	0.00
ATOM	345	CG	LYS	21	4.811	-4.144	11.320	1.00	0.00
ATOM	346	CD	LYS	21	5.675	-5.203	11.989	1.00	0.00
ATOM	347	CE	LYS	21	6.317	-4.680	13.262	1.00	0.00
ATOM	348	NZ	LYS	21	7.623	-4.027	12.988	1.00	0.00
ATOM	351	H	LYS	21	2.844	-4.120	8.058	1.00	0.00
ATOM	352	HA	LYS	21	5.496	-4.555	8.910	1.00	0.00
ATOM	353	1HB	LYS	21	3.481	-5.680	10.694	1.00	0.00
ATOM	354	2HB	LYS	21	3.051	-4.071	10.135	1.00	0.00
ATOM	355	1HG	LYS	21	4.223	-3.642	12.076	1.00	0.00
ATOM	356	2HG	LYS	21	5.453	-3.430	10.828	1.00	0.00
ATOM	357	1HD	LYS	21	6.453	-5.502	11.301	1.00	0.00
ATOM	358	2HD	LYS	21	5.060	-6.057	12.233	1.00	0.00
ATOM	359	1HE	LYS	21	6.473	-5.506	13.940	1.00	0.00
ATOM	360	2HE	LYS	21	5.653	-3.960	13.719	1.00	0.00



ATOM	361	1HZ	LYS	21	8.404	-4.634	13.300	1.00	0.00
ATOM	362	2HZ	LYS	21	7.688	-3.116	13.503	1.00	0.00
ATOM	363	3HZ	LYS	21	7.728	-3.841	11.965	1.00	0.00
ATOM	364	N	LEU	22	3.662	-7.266	8.504	1.00	0.00
ATOM	365	CA	LEU	22	3.723	-8.712	8.324	1.00	0.00
ATOM	370	C	LEU	22	4.536	-9.059	7.088	1.00	0.00
ATOM	371	O	LEU	22	5.401	-9.929	7.126	1.00	0.00
ATOM	366	CB	LEU	22	2.315	-9.295	8.190	1.00	0.00
ATOM	367	CG	LEU	22	1.646	-9.732	9.496	1.00	0.00
ATOM	368	CD1	LEU	22	1.636	-8.601	10.511	1.00	0.00
ATOM	369	CD2	LEU	22	0.232	-10.205	9.216	1.00	0.00
ATOM	372	H	LEU	22	2.795	-6.812	8.429	1.00	0.00
ATOM	373	HA	LEU	22	4.202	-9.138	9.193	1.00	0.00
ATOM	374	1HB	LEU	22	2.368	-10.155	7.538	1.00	0.00
ATOM	375	2HB	LEU	22	1.686	-8.552	7.721	1.00	0.00
ATOM	376	HG	LEU	22	2.195	-10.558	9.923	1.00	0.00
ATOM	377	1HD1	LEU	22	2.480	-8.708	11.178	1.00	0.00
ATOM	378	2HD1	LEU	22	0.719	-8.638	11.082	1.00	0.00
ATOM	379	3HD1	LEU	22	1.702	-7.654	9.996	1.00	0.00
ATOM	380	1HD2	LEU	22	0.092	-10.308	8.151	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.471	-9.483	9.604	1.00	0.00
ATOM	382	3HD2	LEU	22	0.070	-11.159	9.696	1.00	0.00
ATOM	383	N	ARG	23	4.246	-8.362	5.998	1.00	0.00
ATOM	384	CA	ARG	23	4.929	-8.568	4.726	1.00	0.00
ATOM	392	C	ARG	23	6.419	-8.242	4.846	1.00	0.00
ATOM	393	O	ARG	23	7.230	-8.693	4.039	1.00	0.00
ATOM	385	CB	ARG	23	4.256	-7.706	3.648	1.00	0.00
ATOM	386	CG	ARG	23	4.742	-7.948	2.235	1.00	0.00
ATOM	387	CD	ARG	23	4.460	-6.734	1.363	1.00	0.00
ATOM	388	NE	ARG	23	5.359	-5.622	1.674	1.00	0.00
ATOM	389	CZ	ARG	23	6.269	-5.134	0.826	1.00	0.00
ATOM	390	NH1	ARG	23	6.351	-5.602	-0.411	1.00	0.00
ATOM	391	NH2	ARG	23	7.069	-4.147	1.211	1.00	0.00
ATOM	394	H	ARG	23	3.541	-7.678	6.049	1.00	0.00
ATOM	395	HA	ARG	23	4.824	-9.608	4.457	1.00	0.00
ATOM	396	1HB	ARG	23	4.415	-6.665	3.879	1.00	0.00
ATOM	397	2HB	ARG	23	3.194	-7.900	3.668	1.00	0.00
ATOM	398	1HG	ARG	23	4.228	-8.805	1.824	1.00	0.00
ATOM	399	2HG	ARG	23	5.806	-8.131	2.254	1.00	0.00
ATOM	400	1HD	ARG	23	3.433	-6.414	1.529	1.00	0.00
ATOM	401	2HD	ARG	23	4.588	-7.012	0.327	1.00	0.00
ATOM	402	HE	ARG	23	5.289	-5.225	2.569	1.00	0.00
ATOM	403	1HH1	ARG	23	5.714	-6.325	-0.727	1.00	0.00
ATOM	404	2HH1	ARG	23	7.051	-5.250	-1.043	1.00	0.00
ATOM	405	1HH2	ARG	23	6.996	-3.769	2.133	1.00	0.00
ATOM	406	2HH2	ARG	23	7.742	-3.763	0.569	1.00	0.00
ATOM	407	N	GLN	24	6.771	-7.462	5.863	1.00	0.00
ATOM	408	CA	GLN	24	8.159	-7.084	6.089	1.00	0.00
ATOM	414	C	GLN	24	8.915	-8.148	6.891	1.00	0.00
ATOM	415	O	GLN	24	10.123	-8.311	6.721	1.00	0.00
ATOM	409	CB	GLN	24	8.228	-5.744	6.818	1.00	0.00
ATOM	410	CG	GLN	24	8.873	-4.638	5.999	1.00	0.00
ATOM	411	CD	GLN	24	9.204	-3.419	6.836	1.00	0.00
ATOM	412	OE1	GLN	24	8.506	-3.106	7.799	1.00	0.00
ATOM	413	NE2	GLN	24	10.268	-2.722	6.476	1.00	0.00
ATOM	416	H	GLN	24	6.076	-7.129	6.477	1.00	0.00
ATOM	417	HA	GLN	24	8.632	-6.980	5.125	1.00	0.00
ATOM	418	1HB	GLN	24	8.800	-5.870	7.727	1.00	0.00
ATOM	419	2HB	GLN	24	7.226	-5.434	7.074	1.00	0.00
ATOM	420	1HG	GLN	24	8.191	-4.344	5.214	1.00	0.00
ATOM	421	2HG	GLN	24	9.785	-5.014	5.561	1.00	0.00
ATOM	422	1HE2	GLN	24	10.783	-3.024	5.693	1.00	0.00
ATOM	423	2HE2	GLN	24	10.501	-1.932	7.005	1.00	0.00
ATOM	424	N	LYS	25	8.221	-8.862	7.777	1.00	0.00
ATOM	425	CA	LYS	25	8.880	-9.881	8.592	1.00	0.00
ATOM	431	C	LYS	25	7.940	-11.034	8.945	1.00	0.00
ATOM	432	O	LYS	25	7.526	-11.186	10.099	1.00	0.00
ATOM	426	CB	LYS	25	9.438	-9.253	9.873	1.00	0.00
ATOM	427	CG	LYS	25	10.546	-10.068	10.524	1.00	0.00
ATOM	428	CD	LYS	25	10.218	-10.401	11.973	1.00	0.00
ATOM	429	CE	LYS	25	10.811	-11.741	12.390	1.00	0.00
ATOM	430	NZ	LYS	25	9.848	-12.557	13.180	1.00	0.00
ATOM	433	H	LYS	25	7.258	-8.693	7.892	1.00	0.00



ATOM	434	HA	LYS	25	9.703	-10.275	8.016	1.00	0.00
ATOM	435	1HB	LYS	25	8.634	-9.144	10.587	1.00	0.00
ATOM	436	2HB	LYS	25	9.832	-8.275	9.638	1.00	0.00
ATOM	437	1HG	LYS	25	11.463	-9.499	10.494	1.00	0.00
ATOM	438	2HG	LYS	25	10.673	-10.989	9.974	1.00	0.00
ATOM	439	1HD	LYS	25	9.145	-10.441	12.089	1.00	0.00
ATOM	440	2HD	LYS	25	10.622	-9.628	12.608	1.00	0.00
ATOM	441	1HE	LYS	25	11.690	-11.558	12.990	1.00	0.00
ATOM	442	2HE	LYS	25	11.089	-12.288	11.502	1.00	0.00
ATOM	443	1HZ	LYS	25	8.892	-12.158	13.105	1.00	0.00
ATOM	444	2HZ	LYS	25	10.124	-12.570	14.190	1.00	0.00
ATOM	445	3HZ	LYS	25	9.830	-13.540	12.826	1.00	0.00
ATOM	446	N	GLY	26	7.624	-11.857	7.961	1.00	0.00
ATOM	447	CA	GLY	26	6.755	-12.989	8.206	1.00	0.00
ATOM	448	C	GLY	26	5.942	-13.374	6.994	1.00	0.00
ATOM	449	O	GLY	26	6.173	-14.413	6.380	1.00	0.00
ATOM	450	H	GLY	26	7.989	-11.702	7.063	1.00	0.00
ATOM	451	1HA	GLY	26	6.080	-12.739	9.010	1.00	0.00
ATOM	452	2HA	GLY	26	7.355	-13.833	8.505	1.00	0.00
ATOM	453	N	TYR	27	4.998	-12.526	6.645	1.00	0.00
ATOM	454	CA	TYR	27	4.138	-12.759	5.499	1.00	0.00
ATOM	463	C	TYR	27	4.780	-12.209	4.229	1.00	0.00
ATOM	464	O	TYR	27	4.175	-11.425	3.499	1.00	0.00
ATOM	455	CB	TYR	27	2.765	-12.117	5.731	1.00	0.00
ATOM	456	CG	TYR	27	1.651	-12.738	4.914	1.00	0.00
ATOM	457	CD1	TYR	27	1.658	-14.093	4.607	1.00	0.00
ATOM	458	CD2	TYR	27	0.594	-11.965	4.448	1.00	0.00
ATOM	459	CE1	TYR	27	0.646	-14.661	3.859	1.00	0.00
ATOM	460	CE2	TYR	27	-0.423	-12.526	3.698	1.00	0.00
ATOM	461	CZ	TYR	27	-0.392	-13.874	3.407	1.00	0.00
ATOM	462	OH	TYR	27	-1.401	-14.436	2.660	1.00	0.00
ATOM	465	H	TYR	27	4.880	-11.704	7.172	1.00	0.00
ATOM	466	HA	TYR	27	4.013	-13.826	5.391	1.00	0.00
ATOM	467	1HB	TYR	27	2.817	-11.069	5.481	1.00	0.00
ATOM	468	2HB	TYR	27	2.502	-12.218	6.774	1.00	0.00
ATOM	469	HD1	TYR	27	0.573	-10.910	4.678	1.00	0.00
ATOM	470	HD2	TYR	27	2.472	-14.707	4.964	1.00	0.00
ATOM	471	HE1	TYR	27	-1.236	-11.909	3.344	1.00	0.00
ATOM	472	HE2	TYR	27	0.669	-15.716	3.631	1.00	0.00
ATOM	473	HH	TYR	27	-1.924	-15.028	3.222	1.00	0.00
ATOM	474	N	VAL	28	6.010	-12.631	3.971	1.00	0.00
ATOM	475	CA	VAL	28	6.739	-12.188	2.791	1.00	0.00
ATOM	479	C	VAL	28	6.267	-12.966	1.571	1.00	0.00
ATOM	480	O	VAL	28	6.201	-12.436	0.464	1.00	0.00
ATOM	476	CB	VAL	28	8.265	-12.368	2.955	1.00	0.00
ATOM	477	CG1	VAL	28	9.020	-11.492	1.969	1.00	0.00
ATOM	478	CG2	VAL	28	8.695	-12.055	4.382	1.00	0.00
ATOM	481	H	VAL	28	6.438	-13.261	4.591	1.00	0.00
ATOM	482	HA	VAL	28	6.529	-11.140	2.641	1.00	0.00
ATOM	483	HB	VAL	28	8.509	-13.399	2.747	1.00	0.00
ATOM	484	1HG1	VAL	28	10.014	-11.887	1.825	1.00	0.00
ATOM	485	2HG1	VAL	28	9.085	-10.486	2.358	1.00	0.00
ATOM	486	3HG1	VAL	28	8.496	-11.479	1.025	1.00	0.00
ATOM	487	1HG2	VAL	28	9.194	-11.098	4.405	1.00	0.00
ATOM	488	2HG2	VAL	28	9.371	-12.821	4.730	1.00	0.00
ATOM	489	3HG2	VAL	28	7.826	-12.023	5.022	1.00	0.00
ATOM	490	N	CYS	29	5.918	-14.226	1.798	1.00	0.00
ATOM	491	CA	CYS	29	5.425	-15.092	0.738	1.00	0.00
ATOM	494	C	CYS	29	4.108	-14.557	0.199	1.00	0.00
ATOM	495	O	CYS	29	3.849	-14.594	-1.003	1.00	0.00
ATOM	492	CB	CYS	29	5.234	-16.506	1.277	1.00	0.00
ATOM	493	SG	CYS	29	5.734	-16.701	3.004	1.00	0.00
ATOM	496	H	CYS	29	5.981	-14.580	2.710	1.00	0.00
ATOM	497	HA	CYS	29	6.157	-15.107	-0.056	1.00	0.00
ATOM	498	1HB	CYS	29	5.818	-17.190	0.685	1.00	0.00
ATOM	499	2HB	CYS	29	4.190	-16.775	1.203	1.00	0.00
ATOM	500	HG	CYS	29	6.405	-17.844	3.104	1.00	0.00
ATOM	501	N	GLY	30	3.294	-14.038	1.106	1.00	0.00
ATOM	502	CA	GLY	30	2.016	-13.472	0.732	1.00	0.00
ATOM	503	C	GLY	30	2.091	-11.970	0.586	1.00	0.00
ATOM	504	O	GLY	30	1.302	-11.233	1.180	1.00	0.00
ATOM	505	H	GLY	30	3.575	-14.027	2.042	1.00	0.00
ATOM	506	1HA	GLY	30	1.292	-13.711	1.490	1.00	0.00



ATOM	507	2HA	GLY	30	1.699	-13.903	-0.207	1.00	0.00
ATOM	508	N	ALA	31	3.047	-11.520	-0.207	1.00	0.00
ATOM	509	CA	ALA	31	3.241	-10.100	-0.451	1.00	0.00
ATOM	511	C	ALA	31	2.043	-9.532	-1.194	1.00	0.00
ATOM	512	O	ALA	31	1.474	-10.197	-2.061	1.00	0.00
ATOM	510	CB	ALA	31	4.522	-9.870	-1.235	1.00	0.00
ATOM	513	H	ALA	31	3.638	-12.163	-0.645	1.00	0.00
ATOM	514	HA	ALA	31	3.330	-9.603	0.505	1.00	0.00
ATOM	515	1HB	ALA	31	4.720	-8.810	-1.301	1.00	0.00
ATOM	516	2HB	ALA	31	4.413	-10.278	-2.229	1.00	0.00
ATOM	517	3HB	ALA	31	5.344	-10.359	-0.733	1.00	0.00
ATOM	518	N	GLY	32	1.643	-8.319	-0.852	1.00	0.00
ATOM	519	CA	GLY	32	0.495	-7.728	-1.510	1.00	0.00
ATOM	520	C	GLY	32	-0.212	-6.660	-0.687	1.00	0.00
ATOM	521	O	GLY	32	-0.542	-5.602	-1.218	1.00	0.00
ATOM	522	H	GLY	32	2.118	-7.829	-0.144	1.00	0.00
ATOM	523	1HA	GLY	32	-0.212	-8.514	-1.738	1.00	0.00
ATOM	524	2HA	GLY	32	0.823	-7.284	-2.436	1.00	0.00
ATOM	525	N	PRO	33	-0.476	-6.890	0.615	1.00	0.00
ATOM	526	CA	PRO	33	-1.166	-5.909	1.455	1.00	0.00
ATOM	530	C	PRO	33	-0.269	-4.730	1.803	1.00	0.00
ATOM	531	O	PRO	33	-0.665	-3.573	1.692	1.00	0.00
ATOM	527	CB	PRO	33	-1.525	-6.701	2.727	1.00	0.00
ATOM	528	CG	PRO	33	-1.248	-8.132	2.399	1.00	0.00
ATOM	529	CD	PRO	33	-0.153	-8.102	1.380	1.00	0.00
ATOM	532	HA	PRO	33	-2.069	-5.547	0.985	1.00	0.00
ATOM	533	1HB	PRO	33	-2.563	-6.546	2.964	1.00	0.00
ATOM	534	2HB	PRO	33	-0.910	-6.361	3.548	1.00	0.00
ATOM	535	1HG	PRO	33	-2.133	-8.595	1.986	1.00	0.00
ATOM	536	2HG	PRO	33	-0.925	-8.658	3.285	1.00	0.00
ATOM	537	1HD	PRO	33	-0.178	-8.976	0.754	1.00	0.00
ATOM	538	2HD	PRO	33	0.809	-8.009	1.865	1.00	0.00
ATOM	539	N	GLY	34	0.940	-5.045	2.231	1.00	0.00
ATOM	540	CA	GLY	34	1.889	-4.022	2.614	1.00	0.00
ATOM	541	C	GLY	34	2.751	-3.517	1.476	1.00	0.00
ATOM	542	O	GLY	34	3.869	-3.058	1.710	1.00	0.00
ATOM	543	H	GLY	34	1.185	-5.987	2.303	1.00	0.00
ATOM	544	1HA	GLY	34	2.534	-4.426	3.380	1.00	0.00
ATOM	545	2HA	GLY	34	1.348	-3.187	3.029	1.00	0.00
ATOM	546	N	GLU	35	2.250	-3.587	0.251	1.00	0.00
ATOM	547	CA	GLU	35	3.015	-3.102	-0.891	1.00	0.00
ATOM	553	C	GLU	35	2.883	-1.591	-0.982	1.00	0.00
ATOM	554	O	GLU	35	3.853	-0.878	-1.239	1.00	0.00
ATOM	548	CB	GLU	35	2.532	-3.725	-2.198	1.00	0.00
ATOM	549	CG	GLU	35	2.506	-5.234	-2.176	1.00	0.00
ATOM	550	CD	GLU	35	3.853	-5.855	-2.481	1.00	0.00
ATOM	551	OE1	GLU	35	4.468	-5.486	-3.505	1.00	0.00
ATOM	552	OE2	GLU	35	4.303	-6.708	-1.691	1.00	0.00
ATOM	555	H	GLU	35	1.352	-3.955	0.115	1.00	0.00
ATOM	556	HA	GLU	35	4.051	-3.362	-0.731	1.00	0.00
ATOM	557	1HB	GLU	35	3.187	-3.409	-2.997	1.00	0.00
ATOM	558	2HB	GLU	35	1.533	-3.372	-2.404	1.00	0.00
ATOM	559	1HG	GLU	35	1.792	-5.573	-2.908	1.00	0.00
ATOM	560	2HG	GLU	35	2.193	-5.560	-1.195	1.00	0.00
ATOM	561	N	GLY	36	1.662	-1.122	-0.761	1.00	0.00
ATOM	562	CA	GLY	36	1.380	0.299	-0.803	1.00	0.00
ATOM	563	C	GLY	36	2.112	1.056	0.288	1.00	0.00
ATOM	564	O	GLY	36	2.279	0.545	1.394	1.00	0.00
ATOM	565	H	GLY	36	0.943	-1.756	-0.559	1.00	0.00
ATOM	566	1HA	GLY	36	0.318	0.450	-0.681	1.00	0.00
ATOM	567	2HA	GLY	36	1.683	0.689	-1.763	1.00	0.00
ATOM	568	N	PRO	37	2.591	2.269	-0.002	1.00	0.00
ATOM	569	CA	PRO	37	3.333	3.071	0.955	1.00	0.00
ATOM	573	C	PRO	37	2.463	4.051	1.746	1.00	0.00
ATOM	574	O	PRO	37	1.229	3.977	1.747	1.00	0.00
ATOM	570	CB	PRO	37	4.288	3.829	0.040	1.00	0.00
ATOM	571	CG	PRO	37	3.504	4.060	-1.214	1.00	0.00
ATOM	572	CD	PRO	37	2.481	2.948	-1.304	1.00	0.00
ATOM	575	HA	PRO	37	3.899	2.456	1.637	1.00	0.00
ATOM	576	1HB	PRO	37	5.164	3.230	-0.149	1.00	0.00
ATOM	577	2HB	PRO	37	4.574	4.762	0.507	1.00	0.00
ATOM	578	1HG	PRO	37	4.164	4.027	-2.068	1.00	0.00
ATOM	579	2HG	PRO	37	3.007	5.017	-1.161	1.00	0.00



ATOM	580	1HD	PRO	37	2.728	2.274	-2.111	1.00	0.00
ATOM	581	2HD	PRO	37	1.490	3.355	-1.443	1.00	0.00
ATOM	582	N	ALA	38	3.132	4.982	2.409	1.00	0.00
ATOM	583	CA	ALA	38	2.475	6.004	3.205	1.00	0.00
ATOM	585	C	ALA	38	2.029	7.161	2.320	1.00	0.00
ATOM	586	O	ALA	38	2.751	8.143	2.157	1.00	0.00
ATOM	584	CB	ALA	38	3.430	6.489	4.281	1.00	0.00
ATOM	587	H	ALA	38	4.110	4.986	2.352	1.00	0.00
ATOM	588	HA	ALA	38	1.609	5.569	3.686	1.00	0.00
ATOM	589	1HB	ALA	38	3.690	7.519	4.093	1.00	0.00
ATOM	590	2HB	ALA	38	4.324	5.882	4.269	1.00	0.00
ATOM	591	3HB	ALA	38	2.954	6.410	5.247	1.00	0.00
ATOM	592	N	ALA	39	0.850	7.034	1.728	1.00	0.00
ATOM	593	CA	ALA	39	0.334	8.070	0.841	1.00	0.00
ATOM	595	C	ALA	39	-1.026	8.589	1.298	1.00	0.00
ATOM	596	O	ALA	39	-1.422	9.700	0.956	1.00	0.00
ATOM	594	CB	ALA	39	0.237	7.532	-0.578	1.00	0.00
ATOM	597	H	ALA	39	0.323	6.218	1.875	1.00	0.00
ATOM	598	HA	ALA	39	1.038	8.888	0.841	1.00	0.00
ATOM	599	1HB	ALA	39	-0.575	6.821	-0.639	1.00	0.00
ATOM	600	2HB	ALA	39	1.163	7.041	-0.840	1.00	0.00
ATOM	601	3HB	ALA	39	0.055	8.347	-1.262	1.00	0.00
ATOM	602	N	ASP	40	-1.740	7.776	2.058	1.00	0.00
ATOM	603	CA	ASP	40	-3.065	8.137	2.538	1.00	0.00
ATOM	608	C	ASP	40	-2.988	9.070	3.733	1.00	0.00
ATOM	609	O	ASP	40	-1.968	9.123	4.426	1.00	0.00
ATOM	604	CB	ASP	40	-3.840	6.881	2.929	1.00	0.00
ATOM	605	CG	ASP	40	-4.048	5.942	1.764	1.00	0.00
ATOM	606	OD1	ASP	40	-3.076	5.258	1.382	1.00	0.00
ATOM	607	OD2	ASP	40	-5.177	5.880	1.243	1.00	0.00
ATOM	610	H	ASP	40	-1.381	6.902	2.288	1.00	0.00
ATOM	611	HA	ASP	40	-3.587	8.635	1.736	1.00	0.00
ATOM	612	1HB	ASP	40	-4.802	7.173	3.314	1.00	0.00
ATOM	613	2HB	ASP	40	-3.294	6.354	3.697	1.00	0.00
ATOM	614	N	PRO	41	-4.087	9.790	4.013	1.00	0.00
ATOM	615	CA	PRO	41	-4.175	10.711	5.142	1.00	0.00
ATOM	619	C	PRO	41	-4.392	9.968	6.456	1.00	0.00
ATOM	620	O	PRO	41	-5.284	10.289	7.241	1.00	0.00
ATOM	616	CB	PRO	41	-5.371	11.602	4.800	1.00	0.00
ATOM	617	CG	PRO	41	-6.188	10.848	3.798	1.00	0.00
ATOM	618	CD	PRO	41	-5.342	9.725	3.251	1.00	0.00
ATOM	621	HA	PRO	41	-3.283	11.315	5.223	1.00	0.00
ATOM	622	1HB	PRO	41	-5.015	12.536	4.390	1.00	0.00
ATOM	623	2HB	PRO	41	-5.938	11.798	5.698	1.00	0.00
ATOM	624	1HG	PRO	41	-6.480	11.514	2.999	1.00	0.00
ATOM	625	2HG	PRO	41	-7.066	10.446	4.280	1.00	0.00
ATOM	626	1HD	PRO	41	-5.153	9.865	2.198	1.00	0.00
ATOM	627	2HD	PRO	41	-5.832	8.776	3.413	1.00	0.00
ATOM	628	N	LEU	42	-3.542	8.970	6.661	1.00	0.00
ATOM	629	CA	LEU	42	-3.546	8.122	7.847	1.00	0.00
ATOM	634	C	LEU	42	-2.411	7.119	7.720	1.00	0.00
ATOM	635	O	LEU	42	-1.809	6.710	8.710	1.00	0.00
ATOM	630	CB	LEU	42	-4.877	7.373	8.031	1.00	0.00
ATOM	631	CG	LEU	42	-5.701	7.141	6.756	1.00	0.00
ATOM	632	CD1	LEU	42	-5.461	5.748	6.199	1.00	0.00
ATOM	633	CD2	LEU	42	-7.181	7.352	7.038	1.00	0.00
ATOM	636	H	LEU	42	-2.862	8.803	5.975	1.00	0.00
ATOM	637	HA	LEU	42	-3.362	8.754	8.706	1.00	0.00
ATOM	638	1HB	LEU	42	-5.485	7.932	8.726	1.00	0.00
ATOM	639	2HB	LEU	42	-4.656	6.411	8.469	1.00	0.00
ATOM	640	HG	LEU	42	-5.398	7.858	6.005	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.924	5.157	6.926	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.879	5.819	5.291	1.00	0.00
ATOM	643	3HD1	LEU	42	-6.408	5.278	5.983	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.707	6.417	6.917	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.579	8.081	6.347	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.308	7.708	8.049	1.00	0.00
ATOM	647	N	HIS	43	-2.119	6.746	6.476	1.00	0.00
ATOM	648	CA	HIS	43	-1.043	5.806	6.173	1.00	0.00
ATOM	655	C	HIS	43	0.285	6.364	6.657	1.00	0.00
ATOM	656	O	HIS	43	0.964	5.762	7.488	1.00	0.00
ATOM	649	CB	HIS	43	-0.960	5.576	4.665	1.00	0.00
ATOM	650	CG	HIS	43	-1.679	4.360	4.161	1.00	0.00



ATOM	651	ND1	HIS	43	-1.228	3.611	3.094	1.00	0.00
ATOM	652	CD2	HIS	43	-2.859	3.806	4.532	1.00	0.00
ATOM	653	CE1	HIS	43	-2.100	2.659	2.829	1.00	0.00
ATOM	654	NE2	HIS	43	-3.100	2.751	3.689	1.00	0.00
ATOM	657	H	HIS	43	-2.637	7.125	5.737	1.00	0.00
ATOM	658	HA	HIS	43	-1.246	4.874	6.679	1.00	0.00
ATOM	659	1HB	HIS	43	0.077	5.493	4.391	1.00	0.00
ATOM	660	2HB	HIS	43	-1.383	6.433	4.164	1.00	0.00
ATOM	661	HD1	HIS	43	-0.381	3.739	2.611	1.00	0.00
ATOM	662	HD2	HIS	43	-3.494	4.137	5.343	1.00	0.00
ATOM	663	HE1	HIS	43	-2.014	1.928	2.039	1.00	0.00
ATOM	664	HE2	HIS	43	-3.748	2.038	3.860	1.00	0.00
ATOM	665	N	GLN	44	0.643	7.534	6.123	1.00	0.00
ATOM	666	CA	GLN	44	1.891	8.203	6.498	1.00	0.00
ATOM	672	C	GLN	44	1.937	8.456	7.998	1.00	0.00
ATOM	673	O	GLN	44	3.011	8.524	8.595	1.00	0.00
ATOM	667	CB	GLN	44	2.057	9.538	5.753	1.00	0.00
ATOM	668	CG	GLN	44	1.040	9.781	4.646	1.00	0.00
ATOM	669	CD	GLN	44	0.733	11.254	4.441	1.00	0.00
ATOM	670	OE1	GLN	44	1.246	12.114	5.155	1.00	0.00
ATOM	671	NE2	GLN	44	-0.113	11.556	3.465	1.00	0.00
ATOM	674	H	GLN	44	0.051	7.956	5.461	1.00	0.00
ATOM	675	HA	GLN	44	2.707	7.550	6.231	1.00	0.00
ATOM	676	1HB	GLN	44	3.044	9.567	5.315	1.00	0.00
ATOM	677	2HB	GLN	44	1.971	10.344	6.466	1.00	0.00
ATOM	678	1HG	GLN	44	0.123	9.268	4.901	1.00	0.00
ATOM	679	2HG	GLN	44	1.431	9.378	3.723	1.00	0.00
ATOM	680	1HE2	GLN	44	-0.491	10.824	2.932	1.00	0.00
ATOM	681	2HE2	GLN	44	-0.327	12.501	3.314	1.00	0.00
ATOM	682	N	ALA	45	0.763	8.583	8.594	1.00	0.00
ATOM	683	CA	ALA	45	0.652	8.829	10.023	1.00	0.00
ATOM	685	C	ALA	45	1.019	7.595	10.838	1.00	0.00
ATOM	686	O	ALA	45	1.853	7.665	11.744	1.00	0.00
ATOM	684	CB	ALA	45	-0.755	9.288	10.365	1.00	0.00
ATOM	687	H	ALA	45	-0.054	8.502	8.056	1.00	0.00
ATOM	688	HA	ALA	45	1.334	9.628	10.274	1.00	0.00
ATOM	689	1HB	ALA	45	-0.799	9.562	11.410	1.00	0.00
ATOM	690	2HB	ALA	45	-1.453	8.486	10.173	1.00	0.00
ATOM	691	3HB	ALA	45	-1.013	10.143	9.759	1.00	0.00
ATOM	692	N	MET	46	0.387	6.465	10.528	1.00	0.00
ATOM	693	CA	MET	46	0.649	5.228	11.258	1.00	0.00
ATOM	698	C	MET	46	2.072	4.739	11.040	1.00	0.00
ATOM	699	O	MET	46	2.710	4.232	11.965	1.00	0.00
ATOM	694	CB	MET	46	-0.332	4.141	10.840	1.00	0.00
ATOM	695	CG	MET	46	-0.878	3.352	12.012	1.00	0.00
ATOM	696	SD	MET	46	-2.438	2.556	11.632	1.00	0.00
ATOM	697	CE	MET	46	-3.563	3.838	12.149	1.00	0.00
ATOM	700	H	MET	46	-0.281	6.464	9.798	1.00	0.00
ATOM	701	HA	MET	46	0.515	5.431	12.310	1.00	0.00
ATOM	702	1HB	MET	46	0.167	3.456	10.172	1.00	0.00
ATOM	703	2HB	MET	46	-1.163	4.599	10.319	1.00	0.00
ATOM	704	1HG	MET	46	-1.029	4.027	12.842	1.00	0.00
ATOM	705	2HG	MET	46	-0.164	2.599	12.290	1.00	0.00
ATOM	706	1HE	MET	46	-3.304	4.164	13.144	1.00	0.00
ATOM	707	2HE	MET	46	-4.572	3.453	12.146	1.00	0.00
ATOM	708	3HE	MET	46	-3.495	4.673	11.467	1.00	0.00
ATOM	709	N	ARG	47	2.561	4.891	9.819	1.00	0.00
ATOM	710	CA	ARG	47	3.907	4.461	9.469	1.00	0.00
ATOM	718	C	ARG	47	4.957	5.164	10.326	1.00	0.00
ATOM	719	O	ARG	47	5.940	4.553	10.746	1.00	0.00
ATOM	711	CB	ARG	47	4.174	4.733	7.990	1.00	0.00
ATOM	712	CG	ARG	47	4.290	3.474	7.148	1.00	0.00
ATOM	713	CD	ARG	47	5.289	3.656	6.016	1.00	0.00
ATOM	714	NE	ARG	47	6.533	2.932	6.263	1.00	0.00
ATOM	715	CZ	ARG	47	7.653	3.497	6.717	1.00	0.00
ATOM	716	NH1	ARG	47	7.705	4.808	6.939	1.00	0.00
ATOM	717	NH2	ARG	47	8.722	2.743	6.940	1.00	0.00
ATOM	720	H	ARG	47	1.994	5.299	9.126	1.00	0.00
ATOM	721	HA	ARG	47	3.971	3.398	9.645	1.00	0.00
ATOM	722	1HB	ARG	47	5.096	5.287	7.897	1.00	0.00
ATOM	723	2HB	ARG	47	3.366	5.330	7.595	1.00	0.00
ATOM	724	1HG	ARG	47	3.322	3.241	6.729	1.00	0.00
ATOM	725	2HG	ARG	47	4.618	2.660	7.778	1.00	0.00



ATOM	726	1HD	ARG	47	5.509	4.708	5.914	1.00	0.00
ATOM	727	2HD	ARG	47	4.846	3.290	5.101	1.00	0.00
ATOM	728	HE	ARG	47	6.530	1.964	6.091	1.00	0.00
ATOM	729	1HH1	ARG	47	6.900	5.386	6.772	1.00	0.00
ATOM	730	2HH1	ARG	47	8.561	5.235	7.258	1.00	0.00
ATOM	731	1HH2	ARG	47	8.688	1.751	6.760	1.00	0.00
ATOM	732	2HH2	ARG	47	9.565	3.152	7.315	1.00	0.00
ATOM	733	N	ALA	48	4.737	6.445	10.602	1.00	0.00
ATOM	734	CA	ALA	48	5.668	7.214	11.415	1.00	0.00
ATOM	736	C	ALA	48	5.463	6.897	12.882	1.00	0.00
ATOM	737	O	ALA	48	6.401	6.929	13.679	1.00	0.00
ATOM	735	CB	ALA	48	5.494	8.699	11.163	1.00	0.00
ATOM	738	H	ALA	48	3.927	6.879	10.261	1.00	0.00
ATOM	739	HA	ALA	48	6.673	6.933	11.131	1.00	0.00
ATOM	740	1HB	ALA	48	6.080	8.988	10.303	1.00	0.00
ATOM	741	2HB	ALA	48	5.828	9.253	12.028	1.00	0.00
ATOM	742	3HB	ALA	48	4.452	8.914	10.978	1.00	0.00
ATOM	743	N	ALA	49	4.228	6.572	13.228	1.00	0.00
ATOM	744	CA	ALA	49	3.894	6.223	14.590	1.00	0.00
ATOM	746	C	ALA	49	4.629	4.962	14.987	1.00	0.00
ATOM	747	O	ALA	49	5.465	4.984	15.892	1.00	0.00
ATOM	745	CB	ALA	49	2.395	6.038	14.738	1.00	0.00
ATOM	748	H	ALA	49	3.528	6.551	12.539	1.00	0.00
ATOM	749	HA	ALA	49	4.210	7.031	15.233	1.00	0.00
ATOM	750	1HB	ALA	49	2.179	4.999	14.935	1.00	0.00
ATOM	751	2HB	ALA	49	1.903	6.340	13.825	1.00	0.00
ATOM	752	3HB	ALA	49	2.037	6.643	15.558	1.00	0.00
ATOM	753	N	GLY	50	4.310	3.874	14.292	1.00	0.00
ATOM	754	CA	GLY	50	4.944	2.598	14.555	1.00	0.00
ATOM	755	C	GLY	50	6.453	2.701	14.608	1.00	0.00
ATOM	756	O	GLY	50	7.065	2.193	15.527	1.00	0.00
ATOM	757	H	GLY	50	3.629	3.944	13.584	1.00	0.00
ATOM	758	1HA	GLY	50	4.668	1.902	13.776	1.00	0.00
ATOM	759	2HA	GLY	50	4.586	2.220	15.502	1.00	0.00
ATOM	760	N	ASP	51	7.040	3.374	13.623	1.00	0.00
ATOM	761	CA	ASP	51	8.491	3.566	13.549	1.00	0.00
ATOM	766	C	ASP	51	9.058	4.128	14.853	1.00	0.00
ATOM	767	O	ASP	51	10.013	3.585	15.420	1.00	0.00
ATOM	762	CB	ASP	51	8.820	4.520	12.397	1.00	0.00
ATOM	763	CG	ASP	51	10.297	4.558	12.057	1.00	0.00
ATOM	764	OD1	ASP	51	10.758	3.689	11.288	1.00	0.00
ATOM	765	OD2	ASP	51	10.996	5.476	12.537	1.00	0.00
ATOM	768	H	ASP	51	6.482	3.761	12.923	1.00	0.00
ATOM	769	HA	ASP	51	8.947	2.608	13.355	1.00	0.00
ATOM	770	1HB	ASP	51	8.510	5.519	12.672	1.00	0.00
ATOM	771	2HB	ASP	51	8.276	4.214	11.516	1.00	0.00
ATOM	772	N	GLU	52	8.465	5.215	15.327	1.00	0.00
ATOM	773	CA	GLU	52	8.913	5.853	16.555	1.00	0.00
ATOM	779	C	GLU	52	8.704	4.946	17.767	1.00	0.00
ATOM	780	O	GLU	52	9.602	4.787	18.596	1.00	0.00
ATOM	774	CB	GLU	52	8.179	7.179	16.748	1.00	0.00
ATOM	775	CG	GLU	52	8.625	7.964	17.971	1.00	0.00
ATOM	776	CD	GLU	52	7.456	8.507	18.762	1.00	0.00
ATOM	777	OE1	GLU	52	6.532	7.729	19.070	1.00	0.00
ATOM	778	OE2	GLU	52	7.452	9.713	19.070	1.00	0.00
ATOM	781	H	GLU	52	7.706	5.604	14.833	1.00	0.00
ATOM	782	HA	GLU	52	9.970	6.052	16.455	1.00	0.00
ATOM	783	1HB	GLU	52	7.122	6.979	16.844	1.00	0.00
ATOM	784	2HB	GLU	52	8.340	7.796	15.876	1.00	0.00
ATOM	785	1HG	GLU	52	9.240	8.791	17.649	1.00	0.00
ATOM	786	2HG	GLU	52	9.204	7.313	18.611	1.00	0.00
ATOM	787	N	PHE	53	7.521	4.353	17.876	1.00	0.00
ATOM	788	CA	PHE	53	7.219	3.480	19.006	1.00	0.00
ATOM	796	C	PHE	53	8.023	2.193	18.953	1.00	0.00
ATOM	797	O	PHE	53	8.434	1.682	19.981	1.00	0.00
ATOM	789	CB	PHE	53	5.734	3.159	19.074	1.00	0.00
ATOM	790	CG	PHE	53	5.062	3.722	20.292	1.00	0.00
ATOM	791	CD1	PHE	53	5.275	5.039	20.667	1.00	0.00
ATOM	792	CD2	PHE	53	4.215	2.939	21.058	1.00	0.00
ATOM	793	CE1	PHE	53	4.655	5.564	21.783	1.00	0.00
ATOM	794	CE2	PHE	53	3.593	3.458	22.175	1.00	0.00
ATOM	795	CZ	PHE	53	3.812	4.772	22.538	1.00	0.00
ATOM	798	H	PHE	53	6.836	4.512	17.187	1.00	0.00



ATOM	799	HA	PHE	53	7.495	4.013	19.904	1.00	0.00
ATOM	800	1HB	PHE	53	5.603	2.087	19.086	1.00	0.00
ATOM	801	2HB	PHE	53	5.243	3.568	18.204	1.00	0.00
ATOM	802	HD1	PHE	53	5.933	5.659	20.076	1.00	0.00
ATOM	803	HD2	PHE	53	4.043	1.911	20.774	1.00	0.00
ATOM	804	HE1	PHE	53	4.829	6.591	22.065	1.00	0.00
ATOM	805	HE2	PHE	53	2.935	2.837	22.766	1.00	0.00
ATOM	806	HZ	PHE	53	3.326	5.181	23.412	1.00	0.00
ATOM	807	N	GLU	54	8.253	1.682	17.758	1.00	0.00
ATOM	808	CA	GLU	54	9.021	0.458	17.583	1.00	0.00
ATOM	814	C	GLU	54	10.443	0.671	18.099	1.00	0.00
ATOM	815	O	GLU	54	11.076	-0.241	18.634	1.00	0.00
ATOM	809	CB	GLU	54	9.010	0.049	16.102	1.00	0.00
ATOM	810	CG	GLU	54	9.889	-1.146	15.775	1.00	0.00
ATOM	811	CD	GLU	54	9.215	-2.127	14.833	1.00	0.00
ATOM	812	OE1	GLU	54	7.981	-2.040	14.651	1.00	0.00
ATOM	813	OE2	GLU	54	9.915	-2.993	14.264	1.00	0.00
ATOM	816	H	GLU	54	7.900	2.139	16.961	1.00	0.00
ATOM	817	HA	GLU	54	8.548	-0.318	18.170	1.00	0.00
ATOM	818	1HB	GLU	54	9.335	0.892	15.501	1.00	0.00
ATOM	819	2HB	GLU	54	7.996	-0.200	15.824	1.00	0.00
ATOM	820	1HG	GLU	54	10.131	-1.660	16.694	1.00	0.00
ATOM	821	2HG	GLU	54	10.797	-0.793	15.312	1.00	0.00
ATOM	822	N	THR	55	10.926	1.897	17.952	1.00	0.00
ATOM	823	CA	THR	55	12.258	2.258	18.410	1.00	0.00
ATOM	827	C	THR	55	12.258	2.655	19.902	1.00	0.00
ATOM	828	O	THR	55	13.306	2.667	20.551	1.00	0.00
ATOM	824	CB	THR	55	12.818	3.409	17.545	1.00	0.00
ATOM	825	OG1	THR	55	12.695	3.067	16.156	1.00	0.00
ATOM	826	CG2	THR	55	14.280	3.692	17.865	1.00	0.00
ATOM	829	H	THR	55	10.364	2.582	17.524	1.00	0.00
ATOM	830	HA	THR	55	12.898	1.397	18.279	1.00	0.00
ATOM	831	HB	THR	55	12.240	4.303	17.740	1.00	0.00
ATOM	832	HG1	THR	55	11.776	3.185	15.871	1.00	0.00
ATOM	833	1HG2	THR	55	14.350	4.201	18.815	1.00	0.00
ATOM	834	2HG2	THR	55	14.704	4.313	17.090	1.00	0.00
ATOM	835	3HG2	THR	55	14.823	2.759	17.915	1.00	0.00
ATOM	836	N	ARG	56	11.086	2.979	20.447	1.00	0.00
ATOM	837	CA	ARG	56	10.982	3.375	21.855	1.00	0.00
ATOM	845	C	ARG	56	10.378	2.260	22.719	1.00	0.00
ATOM	846	O	ARG	56	11.044	1.699	23.591	1.00	0.00
ATOM	838	CB	ARG	56	10.133	4.647	21.990	1.00	0.00
ATOM	839	CG	ARG	56	10.750	5.872	21.326	1.00	0.00
ATOM	840	CD	ARG	56	9.886	7.116	21.503	1.00	0.00
ATOM	841	NE	ARG	56	10.641	8.224	22.085	1.00	0.00
ATOM	842	CZ	ARG	56	10.372	9.515	21.868	1.00	0.00
ATOM	843	NH1	ARG	56	9.369	9.880	21.079	1.00	0.00
ATOM	844	NH2	ARG	56	11.110	10.449	22.445	1.00	0.00
ATOM	847	H	ARG	56	10.277	2.956	19.890	1.00	0.00
ATOM	848	HA	ARG	56	11.979	3.585	22.211	1.00	0.00
ATOM	849	1HB	ARG	56	9.995	4.864	23.039	1.00	0.00
ATOM	850	2HB	ARG	56	9.167	4.470	21.538	1.00	0.00
ATOM	851	1HG	ARG	56	10.866	5.673	20.271	1.00	0.00
ATOM	852	2HG	ARG	56	11.718	6.056	21.767	1.00	0.00
ATOM	853	1HD	ARG	56	9.055	6.879	22.152	1.00	0.00
ATOM	854	2HD	ARG	56	9.509	7.418	20.537	1.00	0.00
ATOM	855	HE	ARG	56	11.397	7.989	22.673	1.00	0.00
ATOM	856	1HH1	ARG	56	8.793	9.192	20.629	1.00	0.00
ATOM	857	2HH1	ARG	56	9.184	10.856	20.919	1.00	0.00
ATOM	858	1HH2	ARG	56	11.876	10.195	23.049	1.00	0.00
ATOM	859	2HH2	ARG	56	10.907	11.429	22.276	1.00	0.00
ATOM	860	N	PHE	57	9.117	1.949	22.462	1.00	0.00
ATOM	861	CA	PHE	57	8.384	0.913	23.186	1.00	0.00
ATOM	869	C	PHE	57	8.692	-0.470	22.604	1.00	0.00
ATOM	870	O	PHE	57	7.835	-1.112	22.000	1.00	0.00
ATOM	862	CB	PHE	57	6.882	1.219	23.095	1.00	0.00
ATOM	863	CG	PHE	57	5.998	0.387	23.985	1.00	0.00
ATOM	864	CD1	PHE	57	6.353	0.109	25.297	1.00	0.00
ATOM	865	CD2	PHE	57	4.798	-0.108	23.502	1.00	0.00
ATOM	866	CE1	PHE	57	5.523	-0.646	26.107	1.00	0.00
ATOM	867	CE2	PHE	57	3.967	-0.864	24.304	1.00	0.00
ATOM	868	CZ	PHE	57	4.328	-1.133	25.608	1.00	0.00
ATOM	871	H	PHE	57	8.653	2.431	21.744	1.00	0.00



ATOM	872	HA	PHE	57	8.692	0.941	24.221	1.00	0.00
ATOM	873	1HB	PHE	57	6.560	1.066	22.075	1.00	0.00
ATOM	874	2HB	PHE	57	6.722	2.254	23.357	1.00	0.00
ATOM	875	HD1	PHE	57	7.286	0.489	25.686	1.00	0.00
ATOM	876	HD2	PHE	57	4.513	0.102	22.482	1.00	0.00
ATOM	877	HE1	PHE	57	5.810	-0.855	27.127	1.00	0.00
ATOM	878	HE2	PHE	57	3.035	-1.243	23.913	1.00	0.00
ATOM	879	HZ	PHE	57	3.676	-1.721	26.237	1.00	0.00
ATOM	880	N	ARG	58	9.930	-0.917	22.777	1.00	0.00
ATOM	881	CA	ARG	58	10.358	-2.214	22.252	1.00	0.00
ATOM	889	C	ARG	58	9.918	-3.368	23.152	1.00	0.00
ATOM	890	O	ARG	58	10.053	-4.536	22.783	1.00	0.00
ATOM	882	CB	ARG	58	11.881	-2.259	22.082	1.00	0.00
ATOM	883	CG	ARG	58	12.518	-0.909	21.794	1.00	0.00
ATOM	884	CD	ARG	58	13.847	-0.764	22.516	1.00	0.00
ATOM	885	NE	ARG	58	14.724	0.211	21.871	1.00	0.00
ATOM	886	CZ	ARG	58	15.702	-0.110	21.022	1.00	0.00
ATOM	887	NH1	ARG	58	15.925	-1.379	20.703	1.00	0.00
ATOM	888	NH2	ARG	58	16.461	0.841	20.493	1.00	0.00
ATOM	891	H	ARG	58	10.577	-0.354	23.255	1.00	0.00
ATOM	892	HA	ARG	58	9.899	-2.340	21.284	1.00	0.00
ATOM	893	1HB	ARG	58	12.118	-2.924	21.265	1.00	0.00
ATOM	894	2HB	ARG	58	12.321	-2.649	22.988	1.00	0.00
ATOM	895	1HG	ARG	58	11.850	-0.127	22.126	1.00	0.00
ATOM	896	2HG	ARG	58	12.683	-0.818	20.731	1.00	0.00
ATOM	897	1HD	ARG	58	14.340	-1.725	22.529	1.00	0.00
ATOM	898	2HD	ARG	58	13.657	-0.445	23.530	1.00	0.00
ATOM	899	HE	ARG	58	14.579	1.162	22.094	1.00	0.00
ATOM	900	1HH1	ARG	58	15.362	-2.109	21.096	1.00	0.00
ATOM	901	2HH1	ARG	58	16.664	-1.613	20.059	1.00	0.00
ATOM	902	1HH2	ARG	58	16.302	1.809	20.731	1.00	0.00
ATOM	903	2HH2	ARG	58	17.200	0.600	19.857	1.00	0.00
ATOM	904	N	ARG	59	9.398	-3.049	24.330	1.00	0.00
ATOM	905	CA	ARG	59	8.958	-4.078	25.271	1.00	0.00
ATOM	913	C	ARG	59	7.513	-4.499	25.016	1.00	0.00
ATOM	914	O	ARG	59	6.747	-4.708	25.952	1.00	0.00
ATOM	906	CB	ARG	59	9.122	-3.591	26.711	1.00	0.00
ATOM	907	CG	ARG	59	9.825	-4.600	27.606	1.00	0.00
ATOM	908	CD	ARG	59	9.247	-4.610	29.011	1.00	0.00
ATOM	909	NE	ARG	59	10.297	-4.558	30.027	1.00	0.00
ATOM	910	CZ	ARG	59	10.323	-3.681	31.033	1.00	0.00
ATOM	911	NH1	ARG	59	9.315	-2.832	31.212	1.00	0.00
ATOM	912	NH2	ARG	59	11.348	-3.676	31.877	1.00	0.00
ATOM	915	H	ARG	59	9.315	-2.106	24.576	1.00	0.00
ATOM	916	HA	ARG	59	9.593	-4.939	25.125	1.00	0.00
ATOM	917	1HB	ARG	59	8.145	-3.391	27.126	1.00	0.00
ATOM	918	2HB	ARG	59	9.699	-2.679	26.709	1.00	0.00
ATOM	919	1HG	ARG	59	10.874	-4.347	27.659	1.00	0.00
ATOM	920	2HG	ARG	59	9.713	-5.585	27.177	1.00	0.00
ATOM	921	1HD	ARG	59	8.674	-5.515	29.145	1.00	0.00
ATOM	922	2HD	ARG	59	8.601	-3.753	29.128	1.00	0.00
ATOM	923	HE	ARG	59	11.037	-5.210	29.944	1.00	0.00
ATOM	924	1HH1	ARG	59	8.522	-2.850	30.592	1.00	0.00
ATOM	925	2HH1	ARG	59	9.339	-2.165	31.970	1.00	0.00
ATOM	926	1HH2	ARG	59	12.097	-4.328	31.763	1.00	0.00
ATOM	927	2HH2	ARG	59	11.376	-3.013	32.642	1.00	0.00
ATOM	928	N	THR	60	7.151	-4.633	23.748	1.00	0.00
ATOM	929	CA	THR	60	5.804	-5.041	23.380	1.00	0.00
ATOM	933	C	THR	60	5.845	-6.338	22.569	1.00	0.00
ATOM	934	O	THR	60	4.812	-6.863	22.151	1.00	0.00
ATOM	930	CB	THR	60	5.084	-3.931	22.577	1.00	0.00
ATOM	931	OG1	THR	60	3.683	-4.211	22.484	1.00	0.00
ATOM	932	CG2	THR	60	5.671	-3.786	21.179	1.00	0.00
ATOM	935	H	THR	60	7.808	-4.455	23.043	1.00	0.00
ATOM	936	HA	THR	60	5.251	-5.216	24.292	1.00	0.00
ATOM	937	HB	THR	60	5.216	-2.994	23.100	1.00	0.00
ATOM	938	HG1	THR	60	3.546	-5.167	22.499	1.00	0.00
ATOM	939	1HG2	THR	60	4.878	-3.836	20.448	1.00	0.00
ATOM	940	2HG2	THR	60	6.377	-4.583	21.000	1.00	0.00
ATOM	941	3HG2	THR	60	6.175	-2.834	21.098	1.00	0.00
ATOM	942	N	PHE	61	7.051	-6.850	22.349	1.00	0.00
ATOM	943	CA	PHE	61	7.232	-8.078	21.586	1.00	0.00
ATOM	951	C	PHE	61	7.188	-9.302	22.494	1.00	0.00



ATOM	952	O	PHE	61	7.013	-10.427	22.031	1.00	0.00
ATOM	944	CB	PHE	61	8.563	-8.036	20.831	1.00	0.00
ATOM	945	CG	PHE	61	8.495	-7.290	19.527	1.00	0.00
ATOM	946	CD1	PHE	61	8.557	-5.906	19.500	1.00	0.00
ATOM	947	CD2	PHE	61	8.374	-7.975	18.328	1.00	0.00
ATOM	948	CE1	PHE	61	8.496	-5.218	18.303	1.00	0.00
ATOM	949	CE2	PHE	61	8.312	-7.293	17.127	1.00	0.00
ATOM	950	CZ	PHE	61	8.374	-5.914	17.115	1.00	0.00
ATOM	953	H	PHE	61	7.836	-6.389	22.706	1.00	0.00
ATOM	954	HA	PHE	61	6.427	-8.146	20.871	1.00	0.00
ATOM	955	1HB	PHE	61	8.881	-9.046	20.621	1.00	0.00
ATOM	956	2HB	PHE	61	9.303	-7.552	21.449	1.00	0.00
ATOM	957	HD1	PHE	61	8.325	-9.054	18.337	1.00	0.00
ATOM	958	HD2	PHE	61	8.652	-5.362	20.428	1.00	0.00
ATOM	959	HE1	PHE	61	8.218	-7.838	16.199	1.00	0.00
ATOM	960	HE2	PHE	61	8.544	-4.140	18.296	1.00	0.00
ATOM	961	HZ	PHE	61	8.327	-5.378	16.178	1.00	0.00
ATOM	962	N	SER	62	7.353	-9.075	23.789	1.00	0.00
ATOM	963	CA	SER	62	7.343	-10.150	24.771	1.00	0.00
ATOM	966	C	SER	62	5.974	-10.815	24.857	1.00	0.00
ATOM	967	O	SER	62	5.867	-12.037	24.974	1.00	0.00
ATOM	964	CB	SER	62	7.736	-9.579	26.132	1.00	0.00
ATOM	965	OG	SER	62	7.728	-8.157	26.095	1.00	0.00
ATOM	968	H	SER	62	7.493	-8.157	24.101	1.00	0.00
ATOM	969	HA	SER	62	8.071	-10.888	24.473	1.00	0.00
ATOM	970	1HB	SER	62	8.730	-9.916	26.392	1.00	0.00
ATOM	971	2HB	SER	62	7.033	-9.913	26.881	1.00	0.00
ATOM	972	HG	SER	62	6.920	-7.831	26.515	1.00	0.00
ATOM	973	N	ASP	63	4.935	-9.997	24.813	1.00	0.00
ATOM	974	CA	ASP	63	3.560	-10.472	24.907	1.00	0.00
ATOM	979	C	ASP	63	3.195	-11.375	23.745	1.00	0.00
ATOM	980	O	ASP	63	2.337	-12.250	23.874	1.00	0.00
ATOM	975	CB	ASP	63	2.602	-9.284	24.966	1.00	0.00
ATOM	976	CG	ASP	63	2.822	-8.420	26.195	1.00	0.00
ATOM	977	OD1	ASP	63	3.926	-7.850	26.324	1.00	0.00
ATOM	978	OD2	ASP	63	1.896	-8.317	27.032	1.00	0.00
ATOM	981	H	ASP	63	5.093	-9.029	24.737	1.00	0.00
ATOM	982	HA	ASP	63	3.473	-11.043	25.814	1.00	0.00
ATOM	983	1HB	ASP	63	1.589	-9.651	24.979	1.00	0.00
ATOM	984	2HB	ASP	63	2.747	-8.669	24.089	1.00	0.00
ATOM	985	N	LEU	64	3.857	-11.171	22.621	1.00	0.00
ATOM	986	CA	LEU	64	3.617	-11.981	21.433	1.00	0.00
ATOM	991	C	LEU	64	4.002	-13.423	21.724	1.00	0.00
ATOM	992	O	LEU	64	3.292	-14.367	21.372	1.00	0.00
ATOM	987	CB	LEU	64	4.443	-11.466	20.249	1.00	0.00
ATOM	988	CG	LEU	64	3.890	-10.253	19.487	1.00	0.00
ATOM	989	CD1	LEU	64	2.940	-9.423	20.341	1.00	0.00
ATOM	990	CD2	LEU	64	5.041	-9.396	18.991	1.00	0.00
ATOM	993	H	LEU	64	4.532	-10.464	22.592	1.00	0.00
ATOM	994	HA	LEU	64	2.566	-11.932	21.190	1.00	0.00
ATOM	995	1HB	LEU	64	4.555	-12.276	19.545	1.00	0.00
ATOM	996	2HB	LEU	64	5.422	-11.203	20.616	1.00	0.00
ATOM	997	HG	LEU	64	3.341	-10.600	18.623	1.00	0.00
ATOM	998	1HD1	LEU	64	2.050	-9.997	20.549	1.00	0.00
ATOM	999	2HD1	LEU	64	2.673	-8.523	19.809	1.00	0.00
ATOM	1000	3HD1	LEU	64	3.427	-9.163	21.270	1.00	0.00
ATOM	1001	1HD2	LEU	64	4.657	-8.603	18.367	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.723	-10.006	18.418	1.00	0.00
ATOM	1003	3HD2	LEU	64	5.562	-8.970	19.836	1.00	0.00
ATOM	1004	N	ALA	65	5.133	-13.576	22.399	1.00	0.00
ATOM	1005	CA	ALA	65	5.634	-14.887	22.762	1.00	0.00
ATOM	1007	C	ALA	65	4.886	-15.424	23.968	1.00	0.00
ATOM	1008	O	ALA	65	4.499	-16.587	23.999	1.00	0.00
ATOM	1006	CB	ALA	65	7.125	-14.825	23.045	1.00	0.00
ATOM	1009	H	ALA	65	5.635	-12.776	22.672	1.00	0.00
ATOM	1010	HA	ALA	65	5.475	-15.552	21.924	1.00	0.00
ATOM	1011	1HB	ALA	65	7.285	-14.556	24.079	1.00	0.00
ATOM	1012	2HB	ALA	65	7.581	-14.083	22.406	1.00	0.00
ATOM	1013	3HB	ALA	65	7.570	-15.789	22.852	1.00	0.00
ATOM	1014	N	ALA	66	4.685	-14.559	24.957	1.00	0.00
ATOM	1015	CA	ALA	66	3.979	-14.925	26.182	1.00	0.00
ATOM	1017	C	ALA	66	2.625	-15.561	25.877	1.00	0.00
ATOM	1018	O	ALA	66	2.236	-16.549	26.500	1.00	0.00



ATOM	1016	CB	ALA	66	3.797	-13.699	27.057	1.00	0.00
ATOM	1019	H	ALA	66	5.026	-13.638	24.860	1.00	0.00
ATOM	1020	HA	ALA	66	4.585	-15.633	26.725	1.00	0.00
ATOM	1021	1HB	ALA	66	2.747	-13.558	27.263	1.00	0.00
ATOM	1022	2HB	ALA	66	4.183	-12.831	26.543	1.00	0.00
ATOM	1023	3HB	ALA	66	4.330	-13.837	27.985	1.00	0.00
ATOM	1024	N	GLN	67	1.917	-14.988	24.916	1.00	0.00
ATOM	1025	CA	GLN	67	0.606	-15.490	24.530	1.00	0.00
ATOM	1031	C	GLN	67	0.693	-16.799	23.750	1.00	0.00
ATOM	1032	O	GLN	67	0.008	-17.770	24.077	1.00	0.00
ATOM	1026	CB	GLN	67	-0.125	-14.459	23.677	1.00	0.00
ATOM	1027	CG	GLN	67	-0.882	-13.424	24.482	1.00	0.00
ATOM	1028	CD	GLN	67	-1.390	-12.296	23.615	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.590	-12.168	23.385	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.477	-11.476	23.125	1.00	0.00
ATOM	1033	H	GLN	67	2.283	-14.197	24.459	1.00	0.00
ATOM	1034	HA	GLN	67	0.039	-15.659	25.432	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.829	-14.973	23.040	1.00	0.00
ATOM	1036	2HB	GLN	67	0.596	-13.945	23.060	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.223	-13.015	25.234	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.725	-13.901	24.960	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.466	-11.644	23.348	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.777	-10.733	22.562	1.00	0.00
ATOM	1041	N	LEU	68	1.499	-16.812	22.697	1.00	0.00
ATOM	1042	CA	LEU	68	1.621	-17.995	21.848	1.00	0.00
ATOM	1047	C	LEU	68	2.693	-18.967	22.336	1.00	0.00
ATOM	1048	O	LEU	68	3.172	-19.803	21.570	1.00	0.00
ATOM	1043	CB	LEU	68	1.908	-17.581	20.399	1.00	0.00
ATOM	1044	CG	LEU	68	0.711	-17.019	19.615	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.608	-17.526	20.183	1.00	0.00
ATOM	1046	CD2	LEU	68	0.742	-15.497	19.608	1.00	0.00
ATOM	1049	H	LEU	68	2.001	-15.997	22.461	1.00	0.00
ATOM	1050	HA	LEU	68	0.668	-18.506	21.873	1.00	0.00
ATOM	1051	1HB	LEU	68	2.279	-18.447	19.869	1.00	0.00
ATOM	1052	2HB	LEU	68	2.686	-16.832	20.411	1.00	0.00
ATOM	1053	HG	LEU	68	0.778	-17.356	18.591	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.770	-17.093	21.160	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.574	-18.602	20.267	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.416	-17.241	19.525	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.083	-15.123	19.019	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.673	-15.157	19.179	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.656	-15.130	20.621	1.00	0.00
ATOM	1060	N	HIS	69	3.069	-18.862	23.603	1.00	0.00
ATOM	1061	CA	HIS	69	4.079	-19.751	24.165	1.00	0.00
ATOM	1068	C	HIS	69	3.463	-21.096	24.507	1.00	0.00
ATOM	1069	O	HIS	69	4.105	-22.135	24.383	1.00	0.00
ATOM	1062	CB	HIS	69	4.702	-19.142	25.424	1.00	0.00
ATOM	1063	CG	HIS	69	6.137	-19.520	25.631	1.00	0.00
ATOM	1064	ND1	HIS	69	7.150	-18.594	25.729	1.00	0.00
ATOM	1065	CD2	HIS	69	6.724	-20.732	25.767	1.00	0.00
ATOM	1066	CE1	HIS	69	8.297	-19.219	25.916	1.00	0.00
ATOM	1067	NE2	HIS	69	8.067	-20.518	25.943	1.00	0.00
ATOM	1070	H	HIS	69	2.662	-18.173	24.169	1.00	0.00
ATOM	1071	HA	HIS	69	4.845	-19.895	23.421	1.00	0.00
ATOM	1072	1HB	HIS	69	4.143	-19.472	26.288	1.00	0.00
ATOM	1073	2HB	HIS	69	4.650	-18.066	25.358	1.00	0.00
ATOM	1074	HD1	HIS	69	7.047	-17.622	25.663	1.00	0.00
ATOM	1075	HD2	HIS	69	6.226	-21.691	25.743	1.00	0.00
ATOM	1076	HE1	HIS	69	9.262	-18.747	26.031	1.00	0.00
ATOM	1077	HE2	HIS	69	8.766	-21.211	25.851	1.00	0.00
ATOM	1078	N	VAL	70	2.218	-21.060	24.949	1.00	0.00
ATOM	1079	CA	VAL	70	1.506	-22.272	25.322	1.00	0.00
ATOM	1083	C	VAL	70	0.730	-22.844	24.140	1.00	0.00
ATOM	1084	O	VAL	70	1.070	-23.907	23.622	1.00	0.00
ATOM	1080	CB	VAL	70	0.545	-22.034	26.508	1.00	0.00
ATOM	1081	CG1	VAL	70	1.213	-22.428	27.816	1.00	0.00
ATOM	1082	CG2	VAL	70	0.076	-20.583	26.557	1.00	0.00
ATOM	1085	H	VAL	70	1.768	-20.196	25.029	1.00	0.00
ATOM	1086	HA	VAL	70	2.244	-22.999	25.632	1.00	0.00
ATOM	1087	HB	VAL	70	-0.323	-22.665	26.371	1.00	0.00
ATOM	1088	1HG1	VAL	70	0.472	-22.481	28.600	1.00	0.00
ATOM	1089	2HG1	VAL	70	1.959	-21.691	28.076	1.00	0.00
ATOM	1090	3HG1	VAL	70	1.686	-23.393	27.703	1.00	0.00



ATOM	1091	1HG2	VAL	70	0.284	-20.170	27.534	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.986	-20.539	26.366	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.600	-20.010	25.806	1.00	0.00
ATOM	1094	N	THR	71	-0.314	-22.135	23.721	1.00	0.00
ATOM	1095	CA	THR	71	-1.145	-22.569	22.607	1.00	0.00
ATOM	1099	C	THR	71	-1.975	-21.402	22.075	1.00	0.00
ATOM	1100	O	THR	71	-2.397	-20.533	22.842	1.00	0.00
ATOM	1096	CB	THR	71	-2.102	-23.710	23.024	1.00	0.00
ATOM	1097	OG1	THR	71	-2.043	-23.920	24.443	1.00	0.00
ATOM	1098	CG2	THR	71	-1.757	-25.005	22.302	1.00	0.00
ATOM	1101	H	THR	71	-0.536	-21.295	24.173	1.00	0.00
ATOM	1102	HA	THR	71	-0.497	-22.932	21.823	1.00	0.00
ATOM	1103	HB	THR	71	-3.110	-23.428	22.755	1.00	0.00
ATOM	1104	HG1	THR	71	-2.746	-23.420	24.868	1.00	0.00
ATOM	1105	1HG2	THR	71	-1.788	-24.843	21.235	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.470	-25.769	22.572	1.00	0.00
ATOM	1107	3HG2	THR	71	-0.764	-25.323	22.589	1.00	0.00
ATOM	1108	N	PRO	72	-2.219	-21.364	20.756	1.00	0.00
ATOM	1109	CA	PRO	72	-3.006	-20.302	20.130	1.00	0.00
ATOM	1113	C	PRO	72	-4.508	-20.529	20.286	1.00	0.00
ATOM	1114	O	PRO	72	-4.937	-21.503	20.906	1.00	0.00
ATOM	1110	CB	PRO	72	-2.601	-20.403	18.662	1.00	0.00
ATOM	1111	CG	PRO	72	-2.290	-21.846	18.456	1.00	0.00
ATOM	1112	CD	PRO	72	-1.748	-22.356	19.768	1.00	0.00
ATOM	1115	HA	PRO	72	-2.742	-19.328	20.517	1.00	0.00
ATOM	1116	1HB	PRO	72	-1.735	-19.784	18.481	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.420	-20.080	18.037	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.546	-21.953	17.679	1.00	0.00
ATOM	1119	2HG	PRO	72	-3.190	-22.381	18.190	1.00	0.00
ATOM	1120	1HD	PRO	72	-0.669	-22.386	19.741	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.148	-23.335	19.986	1.00	0.00
ATOM	1122	N	GLY	73	-5.307	-19.634	19.712	1.00	0.00
ATOM	1123	CA	GLY	73	-6.748	-19.771	19.795	1.00	0.00
ATOM	1124	C	GLY	73	-7.373	-18.826	20.803	1.00	0.00
ATOM	1125	O	GLY	73	-8.044	-17.863	20.428	1.00	0.00
ATOM	1126	H	GLY	73	-4.914	-18.879	19.220	1.00	0.00
ATOM	1127	1HA	GLY	73	-6.986	-20.787	20.075	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.172	-19.569	18.821	1.00	0.00
ATOM	1129	N	SER	74	-7.150	-19.099	22.083	1.00	0.00
ATOM	1130	CA	SER	74	-7.693	-18.280	23.165	1.00	0.00
ATOM	1133	C	SER	74	-6.931	-16.964	23.324	1.00	0.00
ATOM	1134	O	SER	74	-6.610	-16.545	24.436	1.00	0.00
ATOM	1131	CB	SER	74	-7.640	-19.081	24.464	1.00	0.00
ATOM	1132	OG	SER	74	-6.955	-20.311	24.267	1.00	0.00
ATOM	1135	H	SER	74	-6.604	-19.882	22.317	1.00	0.00
ATOM	1136	HA	SER	74	-8.725	-18.058	22.933	1.00	0.00
ATOM	1137	1HB	SER	74	-8.646	-19.292	24.798	1.00	0.00
ATOM	1138	2HB	SER	74	-7.121	-18.508	25.219	1.00	0.00
ATOM	1139	HG	SER	74	-7.580	-21.045	24.348	1.00	0.00
ATOM	1140	N	ALA	75	-6.650	-16.309	22.211	1.00	0.00
ATOM	1141	CA	ALA	75	-5.935	-15.046	22.234	1.00	0.00
ATOM	1143	C	ALA	75	-6.900	-13.874	22.164	1.00	0.00
ATOM	1144	O	ALA	75	-6.550	-12.749	22.515	1.00	0.00
ATOM	1142	CB	ALA	75	-4.933	-14.986	21.091	1.00	0.00
ATOM	1145	H	ALA	75	-6.938	-16.686	21.351	1.00	0.00
ATOM	1146	HA	ALA	75	-5.388	-14.992	23.159	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.864	-15.957	20.621	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.965	-14.702	21.474	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.261	-14.258	20.363	1.00	0.00
ATOM	1150	N	GLN	76	-8.120	-14.143	21.705	1.00	0.00
ATOM	1151	CA	GLN	76	-9.135	-13.101	21.581	1.00	0.00
ATOM	1157	C	GLN	76	-9.512	-12.520	22.932	1.00	0.00
ATOM	1158	O	GLN	76	-9.752	-11.322	23.048	1.00	0.00
ATOM	1152	CB	GLN	76	-10.374	-13.615	20.831	1.00	0.00
ATOM	1153	CG	GLN	76	-10.801	-15.018	21.218	1.00	0.00
ATOM	1154	CD	GLN	76	-12.000	-15.521	20.432	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.625	-16.515	20.801	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.326	-14.846	19.341	1.00	0.00
ATOM	1159	H	GLN	76	-8.340	-15.061	21.441	1.00	0.00
ATOM	1160	HA	GLN	76	-8.695	-12.306	20.995	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.164	-13.608	19.772	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.199	-12.949	21.027	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.046	-15.022	22.260	1.00	0.00



ATOM	1164	2HG	GLN	76	-9.974	-15.688	21.041	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.788	-14.064	19.100	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.095	-15.159	18.815	1.00	0.00
ATOM	1167	N	GLN	77	-9.542	-13.362	23.953	1.00	0.00
ATOM	1168	CA	GLN	77	-9.875	-12.912	25.295	1.00	0.00
ATOM	1174	C	GLN	77	-8.747	-12.057	25.857	1.00	0.00
ATOM	1175	O	GLN	77	-8.987	-11.050	26.517	1.00	0.00
ATOM	1169	CB	GLN	77	-10.142	-14.110	26.211	1.00	0.00
ATOM	1170	CG	GLN	77	-11.322	-14.967	25.773	1.00	0.00
ATOM	1171	CD	GLN	77	-10.929	-16.063	24.796	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.815	-16.080	24.271	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.843	-16.985	24.541	1.00	0.00
ATOM	1176	H	GLN	77	-9.326	-14.314	23.802	1.00	0.00
ATOM	1177	HA	GLN	77	-10.765	-12.304	25.230	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.340	-13.748	27.208	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.262	-14.734	26.232	1.00	0.00
ATOM	1180	1HG	GLN	77	-12.056	-14.330	25.298	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.760	-15.427	26.646	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.719	-16.911	24.992	1.00	0.00
ATOM	1183	2HE2	GLN	77	-11.618	-17.700	23.911	1.00	0.00
ATOM	1184	N	ARG	78	-7.518	-12.452	25.570	1.00	0.00
ATOM	1185	CA	ARG	78	-6.358	-11.707	26.032	1.00	0.00
ATOM	1193	C	ARG	78	-6.290	-10.357	25.323	1.00	0.00
ATOM	1194	O	ARG	78	-6.053	-9.324	25.953	1.00	0.00
ATOM	1186	CB	ARG	78	-5.077	-12.503	25.780	1.00	0.00
ATOM	1187	CG	ARG	78	-4.971	-13.777	26.605	1.00	0.00
ATOM	1188	CD	ARG	78	-4.008	-14.771	25.972	1.00	0.00
ATOM	1189	NE	ARG	78	-4.384	-16.159	26.247	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.694	-17.218	25.830	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.569	-17.051	25.142	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.129	-18.441	26.107	1.00	0.00
ATOM	1195	H	ARG	78	-7.386	-13.252	25.025	1.00	0.00
ATOM	1196	HA	ARG	78	-6.472	-11.539	27.093	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.228	-11.877	26.014	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.035	-12.773	24.735	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.949	-14.232	26.674	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.616	-13.528	27.594	1.00	0.00
ATOM	1201	1HD	ARG	78	-3.016	-14.592	26.362	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.005	-14.616	24.904	1.00	0.00
ATOM	1203	HE	ARG	78	-5.212	-16.308	26.762	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.241	-16.128	24.938	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.041	-17.844	24.827	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.987	-18.564	26.634	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.624	-19.244	25.793	1.00	0.00
ATOM	1208	N	PHE	79	-6.512	-10.375	24.011	1.00	0.00
ATOM	1209	CA	PHE	79	-6.483	-9.157	23.214	1.00	0.00
ATOM	1217	C	PHE	79	-7.569	-8.187	23.663	1.00	0.00
ATOM	1218	O	PHE	79	-7.313	-6.996	23.827	1.00	0.00
ATOM	1210	CB	PHE	79	-6.651	-9.474	21.729	1.00	0.00
ATOM	1211	CG	PHE	79	-6.044	-8.440	20.825	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.672	-8.243	20.796	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.846	-7.663	20.004	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.112	-7.292	19.965	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.292	-6.712	19.171	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.923	-6.526	19.151	1.00	0.00
ATOM	1219	H	PHE	79	-6.700	-11.232	23.568	1.00	0.00
ATOM	1220	HA	PHE	79	-5.520	-8.691	23.362	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.704	-9.541	21.499	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.179	-10.421	21.513	1.00	0.00
ATOM	1223	HD1	PHE	79	-4.037	-8.843	21.432	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.915	-7.809	20.019	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.042	-7.149	19.951	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.928	-6.114	18.535	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.488	-5.781	18.500	1.00	0.00
ATOM	1228	N	THR	80	-8.784	-8.689	23.864	1.00	0.00
ATOM	1229	CA	THR	80	-9.884	-7.831	24.300	1.00	0.00
ATOM	1233	C	THR	80	-9.574	-7.176	25.648	1.00	0.00
ATOM	1234	O	THR	80	-9.976	-6.041	25.894	1.00	0.00
ATOM	1230	CB	THR	80	-11.220	-8.593	24.400	1.00	0.00
ATOM	1231	OG1	THR	80	-10.994	-9.926	24.859	1.00	0.00
ATOM	1232	CG2	THR	80	-11.922	-8.633	23.052	1.00	0.00
ATOM	1235	H	THR	80	-8.946	-9.652	23.709	1.00	0.00
ATOM	1236	HA	THR	80	-9.999	-7.051	23.559	1.00	0.00



ATOM	1237	HB	THR	80	-11.857	-8.082	25.106	1.00	0.00
ATOM	1238	HG1	THR	80	-10.761	-10.488	24.108	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.196	-8.489	22.265	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.661	-7.848	23.008	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.404	-9.591	22.926	1.00	0.00
ATOM	1242	N	GLN	81	-8.847	-7.888	26.511	1.00	0.00
ATOM	1243	CA	GLN	81	-8.482	-7.362	27.825	1.00	0.00
ATOM	1249	C	GLN	81	-7.628	-6.111	27.696	1.00	0.00
ATOM	1250	O	GLN	81	-8.005	-5.041	28.169	1.00	0.00
ATOM	1244	CB	GLN	81	-7.723	-8.409	28.640	1.00	0.00
ATOM	1245	CG	GLN	81	-8.601	-9.544	29.118	1.00	0.00
ATOM	1246	CD	GLN	81	-9.378	-9.192	30.371	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.896	-9.386	31.486	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.586	-8.679	30.198	1.00	0.00
ATOM	1251	H	GLN	81	-8.545	-8.789	26.254	1.00	0.00
ATOM	1252	HA	GLN	81	-9.392	-7.107	28.342	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.285	-7.931	29.504	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.935	-8.822	28.028	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.978	-10.402	29.323	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.297	-9.785	28.332	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.912	-8.559	29.283	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.107	-8.432	30.999	1.00	0.00
ATOM	1259	N	VAL	82	-6.478	-6.255	27.052	1.00	0.00
ATOM	1260	CA	VAL	82	-5.564	-5.128	26.862	1.00	0.00
ATOM	1264	C	VAL	82	-6.249	-3.991	26.105	1.00	0.00
ATOM	1265	O	VAL	82	-6.024	-2.818	26.390	1.00	0.00
ATOM	1261	CB	VAL	82	-4.264	-5.551	26.126	1.00	0.00
ATOM	1262	CG1	VAL	82	-4.565	-6.328	24.856	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.393	-4.343	25.812	1.00	0.00
ATOM	1266	H	VAL	82	-6.239	-7.142	26.698	1.00	0.00
ATOM	1267	HA	VAL	82	-5.290	-4.764	27.847	1.00	0.00
ATOM	1268	HB	VAL	82	-3.708	-6.198	26.781	1.00	0.00
ATOM	1269	1HG1	VAL	82	-5.224	-7.153	25.086	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.643	-6.708	24.439	1.00	0.00
ATOM	1271	3HG1	VAL	82	-5.043	-5.676	24.139	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.279	-3.740	26.700	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.858	-3.755	25.035	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.423	-4.677	25.476	1.00	0.00
ATOM	1275	N	SER	83	-7.097	-4.352	25.153	1.00	0.00
ATOM	1276	CA	SER	83	-7.821	-3.362	24.365	1.00	0.00
ATOM	1279	C	SER	83	-8.797	-2.573	25.236	1.00	0.00
ATOM	1280	O	SER	83	-8.917	-1.354	25.102	1.00	0.00
ATOM	1277	CB	SER	83	-8.564	-4.040	23.214	1.00	0.00
ATOM	1278	OG	SER	83	-7.668	-4.765	22.389	1.00	0.00
ATOM	1281	H	SER	83	-7.242	-5.307	24.982	1.00	0.00
ATOM	1282	HA	SER	83	-7.096	-2.677	23.955	1.00	0.00
ATOM	1283	1HB	SER	83	-9.061	-3.291	22.616	1.00	0.00
ATOM	1284	2HB	SER	83	-9.297	-4.725	23.616	1.00	0.00
ATOM	1285	HG	SER	83	-7.389	-5.569	22.847	1.00	0.00
ATOM	1286	N	ASP	84	-9.490	-3.272	26.129	1.00	0.00
ATOM	1287	CA	ASP	84	-10.455	-2.636	27.021	1.00	0.00
ATOM	1292	C	ASP	84	-9.753	-1.725	28.015	1.00	0.00
ATOM	1293	O	ASP	84	-10.197	-0.605	28.269	1.00	0.00
ATOM	1288	CB	ASP	84	-11.271	-3.688	27.770	1.00	0.00
ATOM	1289	CG	ASP	84	-12.761	-3.506	27.568	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.244	-3.748	26.440	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.458	-3.128	28.532	1.00	0.00
ATOM	1294	H	ASP	84	-9.351	-4.244	26.192	1.00	0.00
ATOM	1295	HA	ASP	84	-11.121	-2.040	26.415	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.057	-3.616	28.827	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.994	-4.669	27.415	1.00	0.00
ATOM	1298	N	GLU	85	-8.646	-2.207	28.568	1.00	0.00
ATOM	1299	CA	GLU	85	-7.879	-1.432	29.533	1.00	0.00
ATOM	1305	C	GLU	85	-7.181	-0.254	28.852	1.00	0.00
ATOM	1306	O	GLU	85	-6.824	0.726	29.499	1.00	0.00
ATOM	1300	CB	GLU	85	-6.856	-2.324	30.240	1.00	0.00
ATOM	1301	CG	GLU	85	-7.476	-3.523	30.948	1.00	0.00
ATOM	1302	CD	GLU	85	-8.417	-3.124	32.070	1.00	0.00
ATOM	1303	OE1	GLU	85	-8.150	-2.109	32.743	1.00	0.00
ATOM	1304	OE2	GLU	85	-9.432	-3.827	32.285	1.00	0.00
ATOM	1307	H	GLU	85	-8.336	-3.108	28.319	1.00	0.00
ATOM	1308	HA	GLU	85	-8.571	-1.044	30.266	1.00	0.00
ATOM	1309	1HB	GLU	85	-6.329	-1.733	30.974	1.00	0.00



ATOM	1310	2HB	GLU	85	-6.150	-2.690	29.510	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.683	-4.129	31.361	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.030	-4.102	30.226	1.00	0.00
ATOM	1313	N	LEU	86	-6.999	-0.352	27.539	1.00	0.00
ATOM	1314	CA	LEU	86	-6.357	0.711	26.775	1.00	0.00
ATOM	1319	C	LEU	86	-7.378	1.779	26.393	1.00	0.00
ATOM	1320	O	LEU	86	-7.067	2.969	26.350	1.00	0.00
ATOM	1315	CB	LEU	86	-5.684	0.149	25.518	1.00	0.00
ATOM	1316	CG	LEU	86	-4.190	0.467	25.379	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.472	0.248	26.699	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.555	-0.384	24.288	1.00	0.00
ATOM	1321	H	LEU	86	-7.309	-1.157	27.072	1.00	0.00
ATOM	1322	HA	LEU	86	-5.605	1.161	27.407	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.194	0.547	24.654	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.803	-0.925	25.521	1.00	0.00
ATOM	1325	HG	LEU	86	-4.073	1.505	25.105	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.509	0.737	26.672	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.334	-0.811	26.863	1.00	0.00
ATOM	1328	3HD1	LEU	86	-4.063	0.663	27.503	1.00	0.00
ATOM	1329	1HD2	LEU	86	-4.078	-1.326	24.216	1.00	0.00
ATOM	1330	2HD2	LEU	86	-2.517	-0.566	24.531	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.617	0.136	23.344	1.00	0.00
ATOM	1332	N	PHE	87	-8.604	1.346	26.124	1.00	0.00
ATOM	1333	CA	PHE	87	-9.671	2.266	25.755	1.00	0.00
ATOM	1341	C	PHE	87	-10.342	2.834	27.003	1.00	0.00
ATOM	1342	O	PHE	87	-11.178	3.736	26.912	1.00	0.00
ATOM	1334	CB	PHE	87	-10.707	1.564	24.866	1.00	0.00
ATOM	1335	CG	PHE	87	-11.764	2.488	24.325	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.436	3.485	23.421	1.00	0.00
ATOM	1337	CD2	PHE	87	-13.083	2.367	24.733	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.403	4.343	22.933	1.00	0.00
ATOM	1339	CE2	PHE	87	-14.054	3.222	24.248	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.713	4.212	23.348	1.00	0.00
ATOM	1343	H	PHE	87	-8.797	0.383	26.179	1.00	0.00
ATOM	1344	HA	PHE	87	-9.227	3.080	25.199	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.201	0.794	25.441	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.202	1.112	24.026	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.412	3.588	23.095	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.352	1.594	25.437	1.00	0.00
ATOM	1349	HE1	PHE	87	-12.133	5.117	22.229	1.00	0.00
ATOM	1350	HE2	PHE	87	-15.079	3.117	24.574	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.471	4.883	22.968	1.00	0.00
ATOM	1352	N	GLN	88	-9.963	2.289	28.161	1.00	0.00
ATOM	1353	CA	GLN	88	-10.501	2.701	29.460	1.00	0.00
ATOM	1359	C	GLN	88	-10.671	4.216	29.555	1.00	0.00
ATOM	1360	O	GLN	88	-11.739	4.707	29.920	1.00	0.00
ATOM	1354	CB	GLN	88	-9.580	2.216	30.581	1.00	0.00
ATOM	1355	CG	GLN	88	-10.315	1.552	31.733	1.00	0.00
ATOM	1356	CD	GLN	88	-11.070	2.548	32.591	1.00	0.00
ATOM	1357	OE1	GLN	88	-10.501	3.177	33.482	1.00	0.00
ATOM	1358	NE2	GLN	88	-12.356	2.699	32.327	1.00	0.00
ATOM	1361	H	GLN	88	-9.297	1.568	28.139	1.00	0.00
ATOM	1362	HA	GLN	88	-11.467	2.235	29.578	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.033	3.061	30.973	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.879	1.504	30.172	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.597	1.035	32.352	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.020	0.839	31.330	1.00	0.00
ATOM	1367	1HE2	GLN	88	-12.750	2.164	31.600	1.00	0.00
ATOM	1368	2HE2	GLN	88	-12.866	3.345	32.860	1.00	0.00
ATOM	1369	N	GLY	89	-9.622	4.952	29.219	1.00	0.00
ATOM	1370	CA	GLY	89	-9.698	6.395	29.274	1.00	0.00
ATOM	1371	C	GLY	89	-8.451	7.069	28.750	1.00	0.00
ATOM	1372	O	GLY	89	-7.834	7.868	29.454	1.00	0.00
ATOM	1373	H	GLY	89	-8.794	4.512	28.930	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.853	6.697	30.299	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.543	6.720	28.685	1.00	0.00
ATOM	1376	N	GLY	90	-8.078	6.768	27.512	1.00	0.00
ATOM	1377	CA	GLY	90	-6.899	7.390	26.942	1.00	0.00
ATOM	1378	C	GLY	90	-6.503	6.860	25.571	1.00	0.00
ATOM	1379	O	GLY	90	-5.336	6.529	25.360	1.00	0.00
ATOM	1380	H	GLY	90	-8.606	6.134	26.984	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.073	7.239	27.620	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.080	8.451	26.857	1.00	0.00



ATOM	1383	N	PRO	91	-7.427	6.800	24.590	1.00	0.00
ATOM	1384	CA	PRO	91	-7.102	6.336	23.243	1.00	0.00
ATOM	1388	C	PRO	91	-6.439	7.430	22.410	1.00	0.00
ATOM	1389	O	PRO	91	-6.740	7.600	21.232	1.00	0.00
ATOM	1385	CB	PRO	91	-8.452	5.975	22.630	1.00	0.00
ATOM	1386	CG	PRO	91	-9.502	6.602	23.485	1.00	0.00
ATOM	1387	CD	PRO	91	-8.835	7.204	24.700	1.00	0.00
ATOM	1390	HA	PRO	91	-6.465	5.464	23.264	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.555	4.903	22.601	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.498	6.374	21.626	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.223	5.854	23.782	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.995	7.372	22.921	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.276	6.807	25.602	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.922	8.279	24.683	1.00	0.00
ATOM	1397	N	ASN	92	-5.549	8.176	23.042	1.00	0.00
ATOM	1398	CA	ASN	92	-4.852	9.272	22.382	1.00	0.00
ATOM	1403	C	ASN	92	-3.852	8.764	21.353	1.00	0.00
ATOM	1404	O	ASN	92	-3.521	7.580	21.337	1.00	0.00
ATOM	1399	CB	ASN	92	-4.145	10.149	23.412	1.00	0.00
ATOM	1400	CG	ASN	92	-4.382	11.622	23.159	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.163	12.114	22.053	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.828	12.336	24.181	1.00	0.00
ATOM	1405	H	ASN	92	-5.364	7.988	23.985	1.00	0.00
ATOM	1406	HA	ASN	92	-5.593	9.867	21.872	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.083	9.959	23.370	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.514	9.906	24.397	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.980	11.881	25.036	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.984	13.293	24.043	1.00	0.00
ATOM	1411	N	TRP	93	-3.376	9.673	20.500	1.00	0.00
ATOM	1412	CA	TRP	93	-2.411	9.338	19.449	1.00	0.00
ATOM	1423	C	TRP	93	-1.193	8.623	20.019	1.00	0.00
ATOM	1424	O	TRP	93	-0.587	7.793	19.346	1.00	0.00
ATOM	1413	CB	TRP	93	-1.958	10.595	18.701	1.00	0.00
ATOM	1414	CG	TRP	93	-3.075	11.530	18.351	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.228	12.815	18.786	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.193	11.262	17.491	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.369	13.360	18.255	1.00	0.00
ATOM	1418	CE2	TRP	93	-4.978	12.428	17.458	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.609	10.151	16.746	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.150	12.517	16.713	1.00	0.00
ATOM	1421	CZ3	TRP	93	-5.775	10.246	16.005	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.531	11.421	15.995	1.00	0.00
ATOM	1425	H	TRP	93	-3.691	10.601	20.576	1.00	0.00
ATOM	1426	HA	TRP	93	-2.901	8.676	18.750	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.468	10.299	17.783	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.256	11.135	19.317	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.544	13.316	19.454	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.696	14.273	18.417	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.037	9.235	16.742	1.00	0.00
ATOM	1432	HZ2	TRP	93	-6.747	13.416	16.692	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.116	9.405	15.420	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.433	11.449	15.403	1.00	0.00
ATOM	1435	N	GLY	94	-0.848	8.935	21.265	1.00	0.00
ATOM	1436	CA	GLY	94	0.284	8.294	21.898	1.00	0.00
ATOM	1437	C	GLY	94	0.061	6.801	22.043	1.00	0.00
ATOM	1438	O	GLY	94	0.965	5.998	21.824	1.00	0.00
ATOM	1439	H	GLY	94	-1.377	9.592	21.760	1.00	0.00
ATOM	1440	1HA	GLY	94	0.431	8.724	22.878	1.00	0.00
ATOM	1441	2HA	GLY	94	1.166	8.469	21.300	1.00	0.00
ATOM	1442	N	ARG	95	-1.162	6.431	22.401	1.00	0.00
ATOM	1443	CA	ARG	95	-1.523	5.032	22.561	1.00	0.00
ATOM	1451	C	ARG	95	-1.974	4.432	21.237	1.00	0.00
ATOM	1452	O	ARG	95	-1.864	3.225	21.036	1.00	0.00
ATOM	1444	CB	ARG	95	-2.620	4.873	23.616	1.00	0.00
ATOM	1445	CG	ARG	95	-2.395	3.699	24.554	1.00	0.00
ATOM	1446	CD	ARG	95	-1.160	3.903	25.418	1.00	0.00
ATOM	1447	NE	ARG	95	-1.034	2.877	26.455	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.198	1.837	26.386	1.00	0.00
ATOM	1449	NH1	ARG	95	0.590	1.682	25.325	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.154	0.950	27.374	1.00	0.00
ATOM	1453	H	ARG	95	-1.845	7.118	22.547	1.00	0.00
ATOM	1454	HA	ARG	95	-0.641	4.505	22.883	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.567	4.731	23.116	1.00	0.00



ATOM	1456	2HB	ARG	95	-2.666	5.775	24.208	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.266	2.800	23.966	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.256	3.592	25.195	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.225	4.873	25.890	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.284	3.870	24.786	1.00	0.00
ATOM	1461	HE	ARG	95	-1.611	2.970	27.246	1.00	0.00
ATOM	1462	1HH1	ARG	95	0.560	2.345	24.576	1.00	0.00
ATOM	1463	2HH1	ARG	95	1.214	0.900	25.270	1.00	0.00
ATOM	1464	1HH2	ARG	95	-0.753	1.056	28.180	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.469	0.169	27.324	1.00	0.00
ATOM	1466	N	LEU	96	-2.474	5.283	20.343	1.00	0.00
ATOM	1467	CA	LEU	96	-2.944	4.851	19.027	1.00	0.00
ATOM	1472	C	LEU	96	-1.849	4.084	18.296	1.00	0.00
ATOM	1473	O	LEU	96	-2.120	3.149	17.535	1.00	0.00
ATOM	1468	CB	LEU	96	-3.380	6.068	18.198	1.00	0.00
ATOM	1469	CG	LEU	96	-4.416	5.800	17.098	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.729	5.559	15.763	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.311	4.622	17.458	1.00	0.00
ATOM	1474	H	LEU	96	-2.533	6.236	20.576	1.00	0.00
ATOM	1475	HA	LEU	96	-3.793	4.200	19.171	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.500	6.489	17.733	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.790	6.804	18.874	1.00	0.00
ATOM	1478	HG	LEU	96	-5.044	6.674	16.991	1.00	0.00
ATOM	1479	1HD1	LEU	96	-2.799	5.036	15.925	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.531	6.506	15.284	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.371	4.964	15.130	1.00	0.00
ATOM	1482	1HD2	LEU	96	-5.867	4.312	16.586	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.999	4.918	18.236	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.703	3.801	17.809	1.00	0.00
ATOM	1485	N	VAL	97	-0.610	4.468	18.566	1.00	0.00
ATOM	1486	CA	VAL	97	0.534	3.809	17.967	1.00	0.00
ATOM	1490	C	VAL	97	0.571	2.356	18.409	1.00	0.00
ATOM	1491	O	VAL	97	0.567	1.439	17.590	1.00	0.00
ATOM	1487	CB	VAL	97	1.853	4.475	18.379	1.00	0.00
ATOM	1488	CG1	VAL	97	2.982	3.917	17.546	1.00	0.00
ATOM	1489	CG2	VAL	97	1.772	5.987	18.240	1.00	0.00
ATOM	1492	H	VAL	97	-0.465	5.199	19.208	1.00	0.00
ATOM	1493	HA	VAL	97	0.444	3.859	16.886	1.00	0.00
ATOM	1494	HB	VAL	97	2.046	4.237	19.415	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.927	4.239	17.957	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.892	4.275	16.531	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.936	2.838	17.552	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.951	6.264	17.212	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.518	6.446	18.872	1.00	0.00
ATOM	1500	3HG2	VAL	97	0.790	6.324	18.538	1.00	0.00
ATOM	1501	N	ALA	98	0.588	2.167	19.723	1.00	0.00
ATOM	1502	CA	ALA	98	0.614	0.841	20.319	1.00	0.00
ATOM	1504	C	ALA	98	-0.648	0.061	19.984	1.00	0.00
ATOM	1505	O	ALA	98	-0.618	-1.159	19.916	1.00	0.00
ATOM	1503	CB	ALA	98	0.785	0.944	21.827	1.00	0.00
ATOM	1506	H	ALA	98	0.574	2.948	20.310	1.00	0.00
ATOM	1507	HA	ALA	98	1.469	0.314	19.920	1.00	0.00
ATOM	1508	1HB	ALA	98	-0.148	1.252	22.276	1.00	0.00
ATOM	1509	2HB	ALA	98	1.552	1.671	22.055	1.00	0.00
ATOM	1510	3HB	ALA	98	1.074	-0.018	22.224	1.00	0.00
ATOM	1511	N	PHE	99	-1.751	0.772	19.767	1.00	0.00
ATOM	1512	CA	PHE	99	-3.019	0.142	19.428	1.00	0.00
ATOM	1520	C	PHE	99	-2.856	-0.738	18.197	1.00	0.00
ATOM	1521	O	PHE	99	-3.177	-1.924	18.221	1.00	0.00
ATOM	1513	CB	PHE	99	-4.083	1.209	19.145	1.00	0.00
ATOM	1514	CG	PHE	99	-4.981	1.564	20.304	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.749	0.601	20.942	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.075	2.877	20.732	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.588	0.948	21.989	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.912	3.230	21.771	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.670	2.268	22.402	1.00	0.00
ATOM	1522	H	PHE	99	-1.710	1.750	19.831	1.00	0.00
ATOM	1523	HA	PHE	99	-3.325	-0.471	20.259	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.709	0.864	18.338	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.588	2.117	18.833	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.482	3.636	20.242	1.00	0.00
ATOM	1527	HD2	PHE	99	-5.686	-0.428	20.621	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.972	4.260	22.091	1.00	0.00



ATOM	1529	HE2	PHE	99	-7.181	0.190	22.481	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.330	2.548	23.213	1.00	0.00
ATOM	1531	N	PHE	100	-2.349	-0.147	17.125	1.00	0.00
ATOM	1532	CA	PHE	100	-2.144	-0.882	15.886	1.00	0.00
ATOM	1540	C	PHE	100	-0.889	-1.744	15.957	1.00	0.00
ATOM	1541	O	PHE	100	-0.846	-2.839	15.394	1.00	0.00
ATOM	1533	CB	PHE	100	-2.048	0.080	14.704	1.00	0.00
ATOM	1534	CG	PHE	100	-3.363	0.323	14.026	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.242	1.272	14.518	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.719	-0.395	12.897	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.451	1.503	13.895	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.928	-0.169	12.270	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.796	0.781	12.769	1.00	0.00
ATOM	1542	H	PHE	100	-2.109	0.809	17.168	1.00	0.00
ATOM	1543	HA	PHE	100	-2.998	-1.527	15.742	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.367	-0.328	13.972	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.671	1.030	15.050	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.974	1.838	15.399	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.040	-1.138	12.506	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.128	2.246	14.288	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.195	-0.736	11.389	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.743	0.961	12.281	1.00	0.00
ATOM	1551	N	VAL	101	0.130	-1.241	16.645	1.00	0.00
ATOM	1552	CA	VAL	101	1.392	-1.961	16.786	1.00	0.00
ATOM	1556	C	VAL	101	1.191	-3.281	17.531	1.00	0.00
ATOM	1557	O	VAL	101	1.833	-4.281	17.206	1.00	0.00
ATOM	1553	CB	VAL	101	2.461	-1.092	17.503	1.00	0.00
ATOM	1554	CG1	VAL	101	3.570	-1.945	18.112	1.00	0.00
ATOM	1555	CG2	VAL	101	3.052	-0.084	16.530	1.00	0.00
ATOM	1558	H	VAL	101	0.033	-0.360	17.067	1.00	0.00
ATOM	1559	HA	VAL	101	1.753	-2.181	15.791	1.00	0.00
ATOM	1560	HB	VAL	101	1.977	-0.545	18.301	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.389	-2.986	17.888	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.585	-1.804	19.183	1.00	0.00
ATOM	1563	3HG1	VAL	101	4.523	-1.647	17.697	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.791	0.916	16.845	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.658	-0.264	15.541	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.127	-0.187	16.513	1.00	0.00
ATOM	1567	N	FHE	102	0.292	-3.281	18.519	1.00	0.00
ATOM	1568	CA	PHE	102	0.010	-4.480	19.303	1.00	0.00
ATOM	1576	C	PHE	102	-0.386	-5.650	18.410	1.00	0.00
ATOM	1577	O	PHE	102	0.226	-6.718	18.462	1.00	0.00
ATOM	1569	CB	PHE	102	-1.106	-4.205	20.315	1.00	0.00
ATOM	1570	CG	PHE	102	-0.644	-4.196	21.745	1.00	0.00
ATOM	1571	CD1	PHE	102	0.007	-3.092	22.274	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.872	-5.289	22.562	1.00	0.00
ATOM	1573	CE1	PHE	102	0.421	-3.081	23.593	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.458	-5.284	23.879	1.00	0.00
ATOM	1575	CZ	PHE	102	0.187	-4.180	24.396	1.00	0.00
ATOM	1578	H	PHE	102	-0.200	-2.447	18.728	1.00	0.00
ATOM	1579	HA	PHE	102	0.910	-4.744	19.837	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.865	-4.967	20.216	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.544	-3.241	20.104	1.00	0.00
ATOM	1582	HD1	PHE	102	0.190	-2.234	21.646	1.00	0.00
ATOM	1583	HD2	PHE	102	-1.377	-6.155	22.161	1.00	0.00
ATOM	1584	HE1	PHE	102	0.928	-2.216	23.994	1.00	0.00
ATOM	1585	HE2	PHE	102	-0.642	-6.144	24.506	1.00	0.00
ATOM	1586	HZ	PHE	102	0.506	-4.176	25.429	1.00	0.00
ATOM	1587	N	GLY	103	-1.410	-5.445	17.594	1.00	0.00
ATOM	1588	CA	GLY	103	-1.868	-6.497	16.711	1.00	0.00
ATOM	1589	C	GLY	103	-0.922	-6.756	15.562	1.00	0.00
ATOM	1590	O	GLY	103	-0.700	-7.903	15.194	1.00	0.00
ATOM	1591	H	GLY	103	-1.864	-4.574	17.595	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.831	-6.230	16.315	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.971	-7.408	17.284	1.00	0.00
ATOM	1594	N	ALA	104	-0.359	-5.697	14.990	1.00	0.00
ATOM	1595	CA	ALA	104	0.566	-5.840	13.871	1.00	0.00
ATOM	1597	C	ALA	104	1.767	-6.691	14.260	1.00	0.00
ATOM	1598	O	ALA	104	2.199	-7.557	13.499	1.00	0.00
ATOM	1596	CB	ALA	104	1.019	-4.476	13.369	1.00	0.00
ATOM	1599	H	ALA	104	-0.574	-4.799	15.327	1.00	0.00
ATOM	1600	HA	ALA	104	0.038	-6.338	13.067	1.00	0.00
ATOM	1601	1HB	ALA	104	0.592	-3.703	13.992	1.00	0.00



ATOM	1602	2HB	ALA	104	0.688	-4.340	12.350	1.00	0.00
ATOM	1603	3HB	ALA	104	2.096	-4.418	13.410	1.00	0.00
ATOM	1604	N	ALA	105	2.294	-6.460	15.456	1.00	0.00
ATOM	1605	CA	ALA	105	3.429	-7.230	15.936	1.00	0.00
ATOM	1607	C	ALA	105	2.989	-8.652	16.258	1.00	0.00
ATOM	1608	O	ALA	105	3.700	-9.617	15.971	1.00	0.00
ATOM	1606	CB	ALA	105	4.051	-6.566	17.154	1.00	0.00
ATOM	1609	H	ALA	105	1.900	-5.765	16.036	1.00	0.00
ATOM	1610	HA	ALA	105	4.170	-7.261	15.149	1.00	0.00
ATOM	1611	1HB	ALA	105	3.288	-6.034	17.704	1.00	0.00
ATOM	1612	2HB	ALA	105	4.814	-5.871	16.835	1.00	0.00
ATOM	1613	3HB	ALA	105	4.495	-7.319	17.790	1.00	0.00
ATOM	1614	N	LEU	106	1.798	-8.766	16.837	1.00	0.00
ATOM	1615	CA	LEU	106	1.224	-10.056	17.193	1.00	0.00
ATOM	1620	C	LEU	106	1.037	-10.914	15.948	1.00	0.00
ATOM	1621	O	LEU	106	1.452	-12.073	15.899	1.00	0.00
ATOM	1616	CB	LEU	106	-0.124	-9.839	17.889	1.00	0.00
ATOM	1617	CG	LEU	106	-0.393	-10.734	19.099	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.861	-9.897	20.277	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.426	-11.799	18.763	1.00	0.00
ATOM	1622	H	LEU	106	1.279	-7.950	17.022	1.00	0.00
ATOM	1623	HA	LEU	106	1.902	-10.553	17.869	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.912	-9.995	17.166	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.166	-8.811	18.218	1.00	0.00
ATOM	1626	HG	LEU	106	0.522	-11.231	19.383	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.441	-10.295	21.189	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.939	-9.928	20.334	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.536	-8.876	20.147	1.00	0.00
ATOM	1630	1HD2	LEU	106	-2.313	-11.638	19.358	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.020	-12.776	18.980	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.678	-11.738	17.715	1.00	0.00
ATOM	1633	N	CYS	107	0.415	-10.316	14.946	1.00	0.00
ATOM	1634	CA	CYS	107	0.150	-10.973	13.677	1.00	0.00
ATOM	1637	C	CYS	107	1.445	-11.408	13.004	1.00	0.00
ATOM	1638	O	CYS	107	1.518	-12.494	12.437	1.00	0.00
ATOM	1635	CB	CYS	107	-0.634	-10.027	12.762	1.00	0.00
ATOM	1636	SG	CYS	107	-2.347	-9.752	13.275	1.00	0.00
ATOM	1639	H	CYS	107	0.121	-9.386	15.067	1.00	0.00
ATOM	1640	HA	CYS	107	-0.447	-11.850	13.871	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.647	-10.428	11.764	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.138	-9.067	12.747	1.00	0.00
ATOM	1643	HG	CYS	107	-3.127	-10.547	12.555	1.00	0.00
ATOM	1644	N	ALA	108	2.465	-10.560	13.080	1.00	0.00
ATOM	1645	CA	ALA	108	3.757	-10.863	12.481	1.00	0.00
ATOM	1647	C	ALA	108	4.302	-12.187	12.999	1.00	0.00
ATOM	1648	O	ALA	108	4.600	-13.090	12.216	1.00	0.00
ATOM	1646	CB	ALA	108	4.744	-9.738	12.750	1.00	0.00
ATOM	1649	H	ALA	108	2.343	-9.707	13.551	1.00	0.00
ATOM	1650	HA	ALA	108	3.618	-10.939	11.412	1.00	0.00
ATOM	1651	1HB	ALA	108	4.838	-9.123	11.868	1.00	0.00
ATOM	1652	2HB	ALA	108	5.707	-10.158	13.001	1.00	0.00
ATOM	1653	3HB	ALA	108	4.388	-9.136	13.573	1.00	0.00
ATOM	1654	N	GLU	109	4.420	-12.313	14.318	1.00	0.00
ATOM	1655	CA	GLU	109	4.930	-13.542	14.915	1.00	0.00
ATOM	1661	C	GLU	109	3.949	-14.700	14.750	1.00	0.00
ATOM	1662	O	GLU	109	4.327	-15.861	14.892	1.00	0.00
ATOM	1656	CB	GLU	109	5.281	-13.343	16.386	1.00	0.00
ATOM	1657	CG	GLU	109	6.726	-12.916	16.586	1.00	0.00
ATOM	1658	CD	GLU	109	7.432	-13.701	17.676	1.00	0.00
ATOM	1659	OE1	GLU	109	6.747	-14.305	18.523	1.00	0.00
ATOM	1660	OE2	GLU	109	8.683	-13.730	17.671	1.00	0.00
ATOM	1663	H	GLU	109	4.159	-11.565	14.899	1.00	0.00
ATOM	1664	HA	GLU	109	5.837	-13.794	14.386	1.00	0.00
ATOM	1665	1HB	GLU	109	5.126	-14.271	16.914	1.00	0.00
ATOM	1666	2HB	GLU	109	4.637	-12.583	16.804	1.00	0.00
ATOM	1667	1HG	GLU	109	6.744	-11.870	16.844	1.00	0.00
ATOM	1668	2HG	GLU	109	7.260	-13.063	15.659	1.00	0.00
ATOM	1669	N	SER	110	2.700	-14.393	14.417	1.00	0.00
ATOM	1670	CA	SER	110	1.704	-15.432	14.209	1.00	0.00
ATOM	1673	C	SER	110	1.913	-16.067	12.834	1.00	0.00
ATOM	1674	O	SER	110	1.642	-17.249	12.636	1.00	0.00
ATOM	1671	CB	SER	110	0.290	-14.861	14.341	1.00	0.00
ATOM	1672	OG	SER	110	0.058	-14.376	15.653	1.00	0.00



ATOM	1675	H	SER	110	2.447	-13.451	14.292	1.00	0.00
ATOM	1676	HA	SER	110	1.853	-16.189	14.967	1.00	0.00
ATOM	1677	1HB	SER	110	-0.430	-15.635	14.123	1.00	0.00
ATOM	1678	2HB	SER	110	0.167	-14.046	13.642	1.00	0.00
ATOM	1679	HG	SER	110	0.655	-13.639	15.836	1.00	0.00
ATOM	1680	N	VAL	111	2.445	-15.281	11.896	1.00	0.00
ATOM	1681	CA	VAL	111	2.741	-15.779	10.553	1.00	0.00
ATOM	1685	C	VAL	111	4.085	-16.504	10.575	1.00	0.00
ATOM	1686	O	VAL	111	4.415	-17.280	9.680	1.00	0.00
ATOM	1682	CB	VAL	111	2.795	-14.642	9.503	1.00	0.00
ATOM	1683	CG1	VAL	111	2.863	-15.212	8.093	1.00	0.00
ATOM	1684	CG2	VAL	111	1.593	-13.723	9.635	1.00	0.00
ATOM	1687	H	VAL	111	2.671	-14.353	12.123	1.00	0.00
ATOM	1688	HA	VAL	111	1.965	-16.478	10.273	1.00	0.00
ATOM	1689	HB	VAL	111	3.689	-14.059	9.676	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.168	-14.437	7.406	1.00	0.00
ATOM	1691	2HG1	VAL	111	1.891	-15.585	7.808	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.580	-16.019	8.067	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.621	-12.980	8.851	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.619	-13.232	10.595	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.685	-14.301	9.550	1.00	0.00
ATOM	1696	N	ASN	112	4.850	-16.245	11.630	1.00	0.00
ATOM	1697	CA	ASN	112	6.159	-16.865	11.811	1.00	0.00
ATOM	1702	C	ASN	112	5.992	-18.282	12.354	1.00	0.00
ATOM	1703	O	ASN	112	6.950	-19.051	12.427	1.00	0.00
ATOM	1698	CB	ASN	112	7.019	-16.032	12.773	1.00	0.00
ATOM	1699	CG	ASN	112	7.773	-14.903	12.082	1.00	0.00
ATOM	1700	OD1	ASN	112	9.002	-14.914	11.996	1.00	0.00
ATOM	1701	ND2	ASN	112	7.046	-13.900	11.609	1.00	0.00
ATOM	1704	H	ASN	112	4.518	-15.627	12.313	1.00	0.00
ATOM	1705	HA	ASN	112	6.645	-16.912	10.848	1.00	0.00
ATOM	1706	1HB	ASN	112	7.741	-16.680	13.249	1.00	0.00
ATOM	1707	2HB	ASN	112	6.382	-15.599	13.530	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.067	-13.937	11.730	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.503	-13.163	11.155	1.00	0.00
ATOM	1710	N	LYS	113	4.758	-18.616	12.722	1.00	0.00
ATOM	1711	CA	LYS	113	4.425	-19.931	13.249	1.00	0.00
ATOM	1717	C	LYS	113	3.123	-20.421	12.614	1.00	0.00
ATOM	1718	O	LYS	113	2.657	-19.850	11.628	1.00	0.00
ATOM	1712	CB	LYS	113	4.272	-19.875	14.773	1.00	0.00
ATOM	1713	CG	LYS	113	5.594	-19.844	15.526	1.00	0.00
ATOM	1714	CD	LYS	113	5.725	-18.585	16.370	1.00	0.00
ATOM	1715	CE	LYS	113	4.894	-18.673	17.641	1.00	0.00
ATOM	1716	NZ	LYS	113	5.737	-18.583	18.864	1.00	0.00
ATOM	1719	H	LYS	113	4.042	-17.954	12.623	1.00	0.00
ATOM	1720	HA	LYS	113	5.223	-20.612	12.991	1.00	0.00
ATOM	1721	1HB	LYS	113	3.719	-20.745	15.098	1.00	0.00
ATOM	1722	2HB	LYS	113	3.714	-18.989	15.034	1.00	0.00
ATOM	1723	1HG	LYS	113	6.405	-19.874	14.812	1.00	0.00
ATOM	1724	2HG	LYS	113	5.649	-20.706	16.174	1.00	0.00
ATOM	1725	1HD	LYS	113	5.388	-17.738	15.789	1.00	0.00
ATOM	1726	2HD	LYS	113	6.761	-18.450	16.639	1.00	0.00
ATOM	1727	1HE	LYS	113	4.367	-19.616	17.645	1.00	0.00
ATOM	1728	2HE	LYS	113	4.180	-17.862	17.648	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.251	-17.673	18.882	1.00	0.00
ATOM	1730	2HZ	LYS	113	6.437	-19.359	18.876	1.00	0.00
ATOM	1731	3HZ	LYS	113	5.145	-18.653	19.713	1.00	0.00
ATOM	1732	N	GLU	114	2.532	-21.463	13.184	1.00	0.00
ATOM	1733	CA	GLU	114	1.278	-22.005	12.669	1.00	0.00
ATOM	1739	C	GLU	114	0.093	-21.283	13.310	1.00	0.00
ATOM	1740	O	GLU	114	-0.650	-21.863	14.105	1.00	0.00
ATOM	1734	CB	GLU	114	1.188	-23.507	12.954	1.00	0.00
ATOM	1735	CG	GLU	114	2.473	-24.268	12.665	1.00	0.00
ATOM	1736	CD	GLU	114	2.761	-25.325	13.708	1.00	0.00
ATOM	1737	OE1	GLU	114	3.367	-24.991	14.747	1.00	0.00
ATOM	1738	OE2	GLU	114	2.378	-26.498	13.496	1.00	0.00
ATOM	1741	H	GLU	114	2.940	-21.875	13.973	1.00	0.00
ATOM	1742	HA	GLU	114	1.255	-21.842	11.602	1.00	0.00
ATOM	1743	1HB	GLU	114	0.402	-23.929	12.347	1.00	0.00
ATOM	1744	2HB	GLU	114	0.940	-23.649	13.996	1.00	0.00
ATOM	1745	1HG	GLU	114	3.295	-23.567	12.645	1.00	0.00
ATOM	1746	2HG	GLU	114	2.384	-24.748	11.701	1.00	0.00
ATOM	1747	N	MET	115	-0.068	-20.005	12.986	1.00	0.00



ATOM	1748	CA	MET	115	-1.152	-19.209	13.552	1.00	0.00
ATOM	1753	C	MET	115	-1.751	-18.269	12.508	1.00	0.00
ATOM	1754	O	MET	115	-2.127	-17.140	12.822	1.00	0.00
ATOM	1749	CB	MET	115	-0.644	-18.400	14.751	1.00	0.00
ATOM	1750	CG	MET	115	-0.496	-19.213	16.027	1.00	0.00
ATOM	1751	SD	MET	115	1.171	-19.136	16.718	1.00	0.00
ATOM	1752	CE	MET	115	1.297	-20.751	17.481	1.00	0.00
ATOM	1755	H	MET	115	0.566	-19.584	12.362	1.00	0.00
ATOM	1756	HA	MET	115	-1.919	-19.890	13.889	1.00	0.00
ATOM	1757	1HB	MET	115	-1.339	-17.594	14.944	1.00	0.00
ATOM	1758	2HB	MET	115	0.320	-17.980	14.505	1.00	0.00
ATOM	1759	1HG	MET	115	-0.732	-20.245	15.808	1.00	0.00
ATOM	1760	2HG	MET	115	-1.192	-18.835	16.762	1.00	0.00
ATOM	1761	1HE	MET	115	0.308	-21.148	17.653	1.00	0.00
ATOM	1762	2HE	MET	115	1.819	-20.662	18.425	1.00	0.00
ATOM	1763	3HE	MET	115	1.845	-21.415	16.829	1.00	0.00
ATOM	1764	N	GLU	116	-1.844	-18.744	11.271	1.00	0.00
ATOM	1765	CA	GLU	116	-2.398	-17.949	10.172	1.00	0.00
ATOM	1771	C	GLU	116	-3.836	-17.482	10.456	1.00	0.00
ATOM	1772	O	GLU	116	-4.125	-16.291	10.333	1.00	0.00
ATOM	1766	CB	GLU	116	-2.347	-18.728	8.853	1.00	0.00
ATOM	1767	CG	GLU	116	-1.025	-19.438	8.615	1.00	0.00
ATOM	1768	CD	GLU	116	-1.078	-20.897	9.011	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.399	-21.184	10.180	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.805	-21.757	8.150	1.00	0.00
ATOM	1773	H	GLU	116	-1.530	-19.663	11.085	1.00	0.00
ATOM	1774	HA	GLU	116	-1.778	-17.072	10.072	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.515	-18.040	8.036	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.133	-19.468	8.856	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.258	-18.948	9.195	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.779	-19.374	7.565	1.00	0.00
ATOM	1779	N	PRO	117	-4.769	-18.391	10.835	1.00	0.00
ATOM	1780	CA	PRO	117	-6.160	-18.009	11.119	1.00	0.00
ATOM	1784	C	PRO	117	-6.260	-16.968	12.233	1.00	0.00
ATOM	1785	O	PRO	117	-7.167	-16.135	12.240	1.00	0.00
ATOM	1781	CB	PRO	117	-6.819	-19.321	11.559	1.00	0.00
ATOM	1782	CG	PRO	117	-5.956	-20.394	10.996	1.00	0.00
ATOM	1783	CD	PRO	117	-4.560	-19.845	11.009	1.00	0.00
ATOM	1786	HA	PRO	117	-6.653	-17.634	10.234	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.822	-19.373	11.163	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.851	-19.364	12.639	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.261	-20.620	9.986	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.017	-21.277	11.615	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.986	-20.252	10.190	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.079	-20.056	11.952	1.00	0.00
ATOM	1793	N	LEU	118	-5.316	-17.017	13.165	1.00	0.00
ATOM	1794	CA	LEU	118	-5.293	-16.079	14.280	1.00	0.00
ATOM	1799	C	LEU	118	-4.899	-14.683	13.807	1.00	0.00
ATOM	1800	O	LEU	118	-5.343	-13.686	14.369	1.00	0.00
ATOM	1795	CB	LEU	118	-4.329	-16.562	15.369	1.00	0.00
ATOM	1796	CG	LEU	118	-4.988	-17.299	16.532	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.987	-18.798	16.281	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.272	-16.970	17.832	1.00	0.00
ATOM	1801	H	LEU	118	-4.615	-17.698	13.099	1.00	0.00
ATOM	1802	HA	LEU	118	-6.291	-16.035	14.692	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.809	-15.705	15.767	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.607	-17.223	14.914	1.00	0.00
ATOM	1805	HG	LEU	118	-6.014	-16.975	16.622	1.00	0.00
ATOM	1806	1HD1	LEU	118	-4.040	-19.216	16.588	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.139	-18.987	15.227	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.784	-19.258	16.847	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.136	-17.874	18.407	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.863	-16.267	18.401	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.308	-16.535	17.613	1.00	0.00
ATOM	1812	N	VAL	119	-4.074	-14.627	12.767	1.00	0.00
ATOM	1813	CA	VAL	119	-3.617	-13.356	12.204	1.00	0.00
ATOM	1817	C	VAL	119	-4.794	-12.494	11.765	1.00	0.00
ATOM	1818	O	VAL	119	-4.897	-11.326	12.149	1.00	0.00
ATOM	1814	CB	VAL	119	-2.685	-13.585	10.995	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.348	-12.272	10.309	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.420	-14.304	11.422	1.00	0.00
ATOM	1819	H	VAL	119	-3.763	-15.465	12.360	1.00	0.00
ATOM	1820	HA	VAL	119	-3.066	-12.828	12.969	1.00	0.00



ATOM	1821	HB	VAL	119	-3.204	-14.210	10.283	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.637	-12.454	9.516	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.917	-11.590	11.027	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.246	-11.840	9.895	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.656	-15.326	11.678	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.995	-13.806	12.281	1.00	0.00
ATOM	1827	3HG2	VAL	119	-0.708	-14.292	10.610	1.00	0.00
ATOM	1828	N	GLY	120	-5.679	-13.072	10.964	1.00	0.00
ATOM	1829	CA	GLY	120	-6.833	-12.337	10.492	1.00	0.00
ATOM	1830	C	GLY	120	-7.784	-12.001	11.617	1.00	0.00
ATOM	1831	O	GLY	120	-8.437	-10.959	11.591	1.00	0.00
ATOM	1832	H	GLY	120	-5.546	-14.006	10.693	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.353	-12.923	9.758	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.498	-11.418	10.034	1.00	0.00
ATOM	1835	N	GLN	121	-7.845	-12.872	12.618	1.00	0.00
ATOM	1836	CA	GLN	121	-8.707	-12.641	13.762	1.00	0.00
ATOM	1842	C	GLN	121	-8.217	-11.431	14.538	1.00	0.00
ATOM	1843	O	GLN	121	-8.981	-10.522	14.808	1.00	0.00
ATOM	1837	CB	GLN	121	-8.763	-13.867	14.671	1.00	0.00
ATOM	1838	CG	GLN	121	-9.844	-14.860	14.283	1.00	0.00
ATOM	1839	CD	GLN	121	-11.044	-14.798	15.206	1.00	0.00
ATOM	1840	OE1	GLN	121	-11.014	-15.320	16.320	1.00	0.00
ATOM	1841	NE2	GLN	121	-12.105	-14.146	14.762	1.00	0.00
ATOM	1844	H	GLN	121	-7.289	-13.677	12.590	1.00	0.00
ATOM	1845	HA	GLN	121	-9.701	-12.432	13.391	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.953	-13.539	15.682	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.811	-14.365	14.640	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.430	-15.857	14.318	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.171	-14.642	13.277	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.057	-13.731	13.859	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.897	-14.100	15.335	1.00	0.00
ATOM	1852	N	VAL	122	-6.934	-11.401	14.868	1.00	0.00
ATOM	1853	CA	VAL	122	-6.371	-10.264	15.590	1.00	0.00
ATOM	1857	C	VAL	122	-6.630	-8.982	14.804	1.00	0.00
ATOM	1858	O	VAL	122	-6.918	-7.931	15.378	1.00	0.00
ATOM	1854	CB	VAL	122	-4.851	-10.433	15.830	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.273	-9.222	16.545	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.567	-11.701	16.622	1.00	0.00
ATOM	1859	H	VAL	122	-6.348	-12.147	14.609	1.00	0.00
ATOM	1860	HA	VAL	122	-6.878	-10.188	16.548	1.00	0.00
ATOM	1861	HB	VAL	122	-4.364	-10.523	14.870	1.00	0.00
ATOM	1862	1HG1	VAL	122	-5.011	-8.818	17.222	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.002	-8.471	15.817	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.396	-9.517	17.102	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.380	-11.885	17.310	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.648	-11.581	17.175	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.475	-12.535	15.943	1.00	0.00
ATOM	1868	N	GLN	123	-6.563	-9.095	13.484	1.00	0.00
ATOM	1869	CA	GLN	123	-6.819	-7.967	12.608	1.00	0.00
ATOM	1875	C	GLN	123	-8.251	-7.468	12.784	1.00	0.00
ATOM	1876	O	GLN	123	-8.482	-6.267	12.945	1.00	0.00
ATOM	1870	CB	GLN	123	-6.576	-8.356	11.146	1.00	0.00
ATOM	1871	CG	GLN	123	-6.143	-7.187	10.276	1.00	0.00
ATOM	1872	CD	GLN	123	-6.611	-7.326	8.843	1.00	0.00
ATOM	1873	OE1	GLN	123	-7.806	-7.436	8.576	1.00	0.00
ATOM	1874	NE2	GLN	123	-5.674	-7.323	7.910	1.00	0.00
ATOM	1877	H	GLN	123	-6.354	-9.970	13.089	1.00	0.00
ATOM	1878	HA	GLN	123	-6.140	-7.174	12.882	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.489	-8.763	10.738	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.808	-9.117	11.108	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.066	-7.127	10.283	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.555	-6.277	10.686	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.742	-7.232	8.193	1.00	0.00
ATOM	1884	2HE2	GLN	123	-5.953	-7.412	6.976	1.00	0.00
ATOM	1885	N	GLU	124	-9.212	-8.388	12.760	1.00	0.00
ATOM	1886	CA	GLU	124	-10.611	-8.018	12.920	1.00	0.00
ATOM	1892	C	GLU	124	-10.915	-7.619	14.362	1.00	0.00
ATOM	1893	O	GLU	124	-11.686	-6.691	14.585	1.00	0.00
ATOM	1887	CB	GLU	124	-11.540	-9.137	12.453	1.00	0.00
ATOM	1888	CG	GLU	124	-11.300	-10.458	13.146	1.00	0.00
ATOM	1889	CD	GLU	124	-12.302	-11.523	12.753	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.500	-11.196	12.619	1.00	0.00
ATOM	1891	OE2	GLU	124	-11.895	-12.688	12.577	1.00	0.00



ATOM	1894	H	GLU	124	-8.974	-9.335	12.633	1.00	0.00
ATOM	1895	HA	GLU	124	-10.779	-7.152	12.296	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.405	-9.283	11.391	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.563	-8.840	12.637	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.356	-10.298	14.215	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.309	-10.802	12.892	1.00	0.00
ATOM	1900	N	TRP	125	-10.290	-8.287	15.343	1.00	0.00
ATOM	1901	CA	TRP	125	-10.509	-7.930	16.748	1.00	0.00
ATOM	1912	C	TRP	125	-10.126	-6.470	16.936	1.00	0.00
ATOM	1913	O	TRP	125	-10.781	-5.710	17.654	1.00	0.00
ATOM	1902	CB	TRP	125	-9.641	-8.759	17.719	1.00	0.00
ATOM	1903	CG	TRP	125	-9.746	-10.260	17.644	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.744	-11.025	17.102	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.775	-11.181	18.155	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.434	-12.363	17.239	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.229	-12.478	17.872	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.554	-11.027	18.819	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.507	-13.616	18.222	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.841	-12.155	19.171	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.316	-13.435	18.866	1.00	0.00
ATOM	1914	H	TRP	125	-9.657	-9.014	15.118	1.00	0.00
ATOM	1915	HA	TRP	125	-11.556	-8.056	16.977	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.880	-8.465	18.726	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.608	-8.510	17.534	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.629	-10.634	16.635	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.984	-13.116	16.931	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.178	-10.046	19.081	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.860	-14.610	17.993	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.895	-12.055	19.683	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.729	-14.291	19.171	1.00	0.00
ATOM	1924	N	MET	126	-9.042	-6.100	16.272	1.00	0.00
ATOM	1925	CA	MET	126	-8.518	-4.746	16.342	1.00	0.00
ATOM	1930	C	MET	126	-9.391	-3.768	15.572	1.00	0.00
ATOM	1931	O	MET	126	-9.811	-2.743	16.111	1.00	0.00
ATOM	1926	CB	MET	126	-7.094	-4.710	15.789	1.00	0.00
ATOM	1927	CG	MET	126	-6.146	-3.827	16.580	1.00	0.00
ATOM	1928	SD	MET	126	-4.415	-4.144	16.179	1.00	0.00
ATOM	1929	CE	MET	126	-4.370	-3.676	14.450	1.00	0.00
ATOM	1932	H	MET	126	-8.574	-6.774	15.716	1.00	0.00
ATOM	1933	HA	MET	126	-8.499	-4.450	17.378	1.00	0.00
ATOM	1934	1HB	MET	126	-7.125	-4.346	14.772	1.00	0.00
ATOM	1935	2HB	MET	126	-6.697	-5.715	15.789	1.00	0.00
ATOM	1936	1HG	MET	126	-6.298	-4.013	17.633	1.00	0.00
ATOM	1937	2HG	MET	126	-6.369	-2.793	16.362	1.00	0.00
ATOM	1938	1HE	MET	126	-3.925	-2.697	14.356	1.00	0.00
ATOM	1939	2HE	MET	126	-5.375	-3.655	14.054	1.00	0.00
ATOM	1940	3HE	MET	126	-3.779	-4.394	13.898	1.00	0.00
ATOM	1941	N	VAL	127	-9.649	-4.077	14.309	1.00	0.00
ATOM	1942	CA	VAL	127	-10.454	-3.206	13.466	1.00	0.00
ATOM	1946	C	VAL	127	-11.866	-3.019	14.027	1.00	0.00
ATOM	1947	O	VAL	127	-12.447	-1.945	13.881	1.00	0.00
ATOM	1943	CB	VAL	127	-10.503	-3.706	11.997	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.543	-4.800	11.801	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.763	-2.543	11.048	1.00	0.00
ATOM	1948	H	VAL	127	-9.275	-4.905	13.931	1.00	0.00
ATOM	1949	HA	VAL	127	-9.970	-2.240	13.463	1.00	0.00
ATOM	1950	HB	VAL	127	-9.534	-4.118	11.752	1.00	0.00
ATOM	1951	1HG1	VAL	127	-12.525	-4.355	11.726	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.517	-5.476	12.642	1.00	0.00
ATOM	1953	3HG1	VAL	127	-11.325	-5.345	10.894	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.553	-2.852	10.034	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.123	-1.714	11.312	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.796	-2.239	11.125	1.00	0.00
ATOM	1957	N	GLU	128	-12.405	-4.045	14.689	1.00	0.00
ATOM	1958	CA	GLU	128	-13.739	-3.952	15.273	1.00	0.00
ATOM	1964	C	GLU	128	-13.744	-2.949	16.417	1.00	0.00
ATOM	1965	O	GLU	128	-14.526	-1.999	16.425	1.00	0.00
ATOM	1959	CB	GLU	128	-14.207	-5.320	15.773	1.00	0.00
ATOM	1960	CG	GLU	128	-15.463	-5.825	15.085	1.00	0.00
ATOM	1961	CD	GLU	128	-16.415	-6.513	16.041	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.756	-5.913	17.082	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.828	-7.656	15.754	1.00	0.00
ATOM	1966	H	GLU	128	-11.890	-4.882	14.796	1.00	0.00



ATOM	1967	HA	GLU	128	-14.412	-3.605	14.505	1.00	0.00
ATOM	1968	1HB	GLU	128	-14.404	-5.254	16.833	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.418	-6.039	15.606	1.00	0.00
ATOM	1970	1HG	GLU	128	-15.179	-6.528	14.315	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.972	-4.987	14.633	1.00	0.00
ATOM	1972	N	TYR	129	-12.852	-3.157	17.375	1.00	0.00
ATOM	1973	CA	TYR	129	-12.740	-2.269	18.523	1.00	0.00
ATOM	1982	C	TYR	129	-12.438	-0.838	18.084	1.00	0.00
ATOM	1983	O	TYR	129	-12.816	0.129	18.750	1.00	0.00
ATOM	1974	CB	TYR	129	-11.638	-2.759	19.460	1.00	0.00
ATOM	1975	CG	TYR	129	-11.943	-2.499	20.914	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.646	-3.424	21.674	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.547	-1.316	21.520	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.940	-3.177	23.002	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.842	-1.059	22.842	1.00	0.00
ATOM	1980	CZ	TYR	129	-12.536	-1.990	23.578	1.00	0.00
ATOM	1981	OH	TYR	129	-12.840	-1.725	24.891	1.00	0.00
ATOM	1984	H	TYR	129	-12.246	-3.928	17.305	1.00	0.00
ATOM	1985	HA	TYR	129	-13.682	-2.282	19.051	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.716	-2.252	19.216	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.506	-3.822	19.326	1.00	0.00
ATOM	1988	HD1	TYR	129	-11.001	-0.586	20.942	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.959	-4.351	21.218	1.00	0.00
ATOM	1990	HE1	TYR	129	-11.525	-0.133	23.295	1.00	0.00
ATOM	1991	HE2	TYR	129	-13.486	-3.909	23.580	1.00	0.00
ATOM	1992	HE	TYR	129	-12.849	-2.560	25.400	1.00	0.00
ATOM	1993	N	LEU	130	-11.745	-0.715	16.968	1.00	0.00
ATOM	1994	CA	LEU	130	-11.371	0.587	16.447	1.00	0.00
ATOM	1999	C	LEU	130	-12.534	1.296	15.752	1.00	0.00
ATOM	2000	O	LEU	130	-12.829	2.445	16.063	1.00	0.00
ATOM	1995	CB	LEU	130	-10.199	0.458	15.483	1.00	0.00
ATOM	1996	CG	LEU	130	-8.867	0.968	16.024	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.802	-0.114	15.935	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.435	2.216	15.269	1.00	0.00
ATOM	2001	H	LEU	130	-11.465	-1.527	16.488	1.00	0.00
ATOM	2002	HA	LEU	130	-11.057	1.192	17.285	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.440	1.019	14.595	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.087	-0.585	15.218	1.00	0.00
ATOM	2005	HG	LEU	130	-8.986	1.231	17.065	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.275	-1.078	15.830	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.202	-0.103	16.833	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.170	0.072	15.078	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.747	2.784	15.877	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.304	2.820	15.049	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.953	1.930	14.346	1.00	0.00
ATOM	2012	N	GLU	131	-13.178	0.635	14.802	1.00	0.00
ATOM	2013	CA	GLU	131	-14.277	1.260	14.072	1.00	0.00
ATOM	2019	C	GLU	131	-15.479	1.547	14.975	1.00	0.00
ATOM	2020	O	GLU	131	-16.186	2.536	14.779	1.00	0.00
ATOM	2014	CB	GLU	131	-14.694	0.402	12.866	1.00	0.00
ATOM	2015	CG	GLU	131	-15.301	-0.944	13.228	1.00	0.00
ATOM	2016	CD	GLU	131	-16.794	-0.997	12.973	1.00	0.00
ATOM	2017	OE1	GLU	131	-17.198	-1.136	11.800	1.00	0.00
ATOM	2018	OE2	GLU	131	-17.567	-0.893	13.945	1.00	0.00
ATOM	2021	H	GLU	131	-12.898	-0.280	14.570	1.00	0.00
ATOM	2022	HA	GLU	131	-13.910	2.206	13.702	1.00	0.00
ATOM	2023	1HB	GLU	131	-13.823	0.224	12.252	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.421	0.951	12.285	1.00	0.00
ATOM	2025	1HG	GLU	131	-15.122	-1.133	14.275	1.00	0.00
ATOM	2026	2HG	GLU	131	-14.824	-1.712	12.637	1.00	0.00
ATOM	2027	N	THR	132	-15.715	0.682	15.947	1.00	0.00
ATOM	2028	CA	THR	132	-16.848	0.844	16.847	1.00	0.00
ATOM	2032	C	THR	132	-16.586	1.851	17.974	1.00	0.00
ATOM	2033	O	THR	132	-17.512	2.525	18.429	1.00	0.00
ATOM	2029	CB	THR	132	-17.237	-0.506	17.474	1.00	0.00
ATOM	2030	OG1	THR	132	-17.255	-1.535	16.470	1.00	0.00
ATOM	2031	CG2	THR	132	-18.606	-0.430	18.138	1.00	0.00
ATOM	2034	H	THR	132	-15.129	-0.101	16.049	1.00	0.00
ATOM	2035	HA	THR	132	-17.686	1.191	16.262	1.00	0.00
ATOM	2036	HB	THR	132	-16.497	-0.756	18.225	1.00	0.00
ATOM	2037	HG1	THR	132	-17.310	-1.130	15.581	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.193	-1.290	17.846	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.111	0.471	17.823	1.00	0.00



ATOM	2040	3HG2	THR	132	-18.490	-0.421	19.212	1.00	0.00
ATOM	2041	N	ARG	133	-15.349	1.936	18.463	1.00	0.00
ATOM	2042	CA	ARG	133	-15.063	2.851	19.572	1.00	0.00
ATOM	2050	C	ARG	133	-13.953	3.855	19.277	1.00	0.00
ATOM	2051	O	ARG	133	-14.095	5.035	19.590	1.00	0.00
ATOM	2043	CB	ARG	133	-14.700	2.072	20.845	1.00	0.00
ATOM	2044	CG	ARG	133	-15.272	0.664	20.920	1.00	0.00
ATOM	2045	CD	ARG	133	-16.180	0.506	22.130	1.00	0.00
ATOM	2046	NE	ARG	133	-15.541	-0.239	23.219	1.00	0.00
ATOM	2047	CZ	ARG	133	-16.213	-0.962	24.116	1.00	0.00
ATOM	2048	NH1	ARG	133	-17.537	-0.996	24.082	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.559	-1.627	25.064	1.00	0.00
ATOM	2052	H	ARG	133	-14.639	1.364	18.102	1.00	0.00
ATOM	2053	HA	ARG	133	-15.967	3.408	19.763	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.059	2.626	21.701	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.624	1.998	20.907	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.457	-0.042	20.996	1.00	0.00
ATOM	2057	2HG	ARG	133	-15.841	0.468	20.023	1.00	0.00
ATOM	2058	1HD	ARG	133	-17.074	-0.018	21.825	1.00	0.00
ATOM	2059	2HD	ARG	133	-16.448	1.488	22.492	1.00	0.00
ATOM	2060	HE	ARG	133	-14.560	-0.199	23.280	1.00	0.00
ATOM	2061	1HH1	ARG	133	-18.037	-0.476	23.387	1.00	0.00
ATOM	2062	2HH1	ARG	133	-18.050	-1.543	24.759	1.00	0.00
ATOM	2063	1HH2	ARG	133	-14.551	-1.589	25.110	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.063	-2.174	25.735	1.00	0.00
ATOM	2065	N	LEU	134	-12.840	3.397	18.719	1.00	0.00
ATOM	2066	CA	LEU	134	-11.714	4.295	18.449	1.00	0.00
ATOM	2071	C	LEU	134	-12.114	5.435	17.513	1.00	0.00
ATOM	2072	O	LEU	134	-11.731	6.586	17.727	1.00	0.00
ATOM	2067	CB	LEU	134	-10.529	3.525	17.868	1.00	0.00
ATOM	2068	CG	LEU	134	-9.351	3.317	18.825	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.677	4.644	19.145	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.809	2.624	20.100	1.00	0.00
ATOM	2073	H	LEU	134	-12.761	2.437	18.505	1.00	0.00
ATOM	2074	HA	LEU	134	-11.414	4.723	19.393	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.168	4.060	17.002	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.880	2.555	17.550	1.00	0.00
ATOM	2077	HG	LEU	134	-8.619	2.680	18.345	1.00	0.00
ATOM	2078	1HD1	LEU	134	-8.648	4.784	20.215	1.00	0.00
ATOM	2079	2HD1	LEU	134	-9.233	5.450	18.690	1.00	0.00
ATOM	2080	3HD1	LEU	134	-7.669	4.638	18.757	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.019	1.586	19.890	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.703	3.105	20.470	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.030	2.690	20.845	1.00	0.00
ATOM	2084	N	ALA	135	-12.887	5.108	16.481	1.00	0.00
ATOM	2085	CA	ALA	135	-13.346	6.093	15.516	1.00	0.00
ATOM	2087	C	ALA	135	-14.091	7.234	16.201	1.00	0.00
ATOM	2088	O	ALA	135	-14.011	8.381	15.760	1.00	0.00
ATOM	2086	CB	ALA	135	-14.239	5.437	14.476	1.00	0.00
ATOM	2089	H	ALA	135	-13.153	4.171	16.364	1.00	0.00
ATOM	2090	HA	ALA	135	-12.481	6.496	15.011	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.716	4.571	14.908	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.642	5.134	13.627	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.992	6.141	14.153	1.00	0.00
ATOM	2094	N	ASP	136	-14.798	6.927	17.286	1.00	0.00
ATOM	2095	CA	ASP	136	-15.532	7.954	18.022	1.00	0.00
ATOM	2100	C	ASP	136	-14.563	8.935	18.652	1.00	0.00
ATOM	2101	O	ASP	136	-14.687	10.147	18.458	1.00	0.00
ATOM	2096	CB	ASP	136	-16.424	7.325	19.092	1.00	0.00
ATOM	2097	CG	ASP	136	-17.118	8.371	19.940	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.139	8.924	19.488	1.00	0.00
ATOM	2099	OD2	ASP	136	-16.643	8.645	21.060	1.00	0.00
ATOM	2102	H	ASP	136	-14.817	5.997	17.610	1.00	0.00
ATOM	2103	HA	ASP	136	-16.144	8.497	17.319	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.819	6.703	19.738	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.177	6.715	18.613	1.00	0.00
ATOM	2106	N	TRP	137	-13.577	8.414	19.376	1.00	0.00
ATOM	2107	CA	TRP	137	-12.576	9.260	19.992	1.00	0.00
ATOM	2118	C	TRP	137	-11.885	10.086	18.915	1.00	0.00
ATOM	2119	O	TRP	137	-11.728	11.293	19.053	1.00	0.00
ATOM	2108	CB	TRP	137	-11.549	8.410	20.756	1.00	0.00
ATOM	2109	CG	TRP	137	-10.430	9.222	21.338	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.353	9.722	22.604	1.00	0.00



ATOM	2111	CD2	TRP	137	-9.235	9.636	20.670	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.189	10.432	22.759	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.487	10.393	21.585	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.726	9.442	19.384	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.262	10.956	21.252	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.511	10.003	19.056	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.789	10.751	19.987	1.00	0.00
ATOM	2120	H	TRP	137	-13.508	7.438	19.480	1.00	0.00
ATOM	2121	HA	TRP	137	-13.074	9.929	20.678	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.120	7.681	20.082	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.045	7.896	21.565	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.104	9.570	23.362	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.910	10.897	23.574	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.271	8.866	18.649	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.690	11.532	21.958	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.104	9.862	18.065	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.840	11.172	19.688	1.00	0.00
ATOM	2130	N	ILE	138	-11.485	9.418	17.841	1.00	0.00
ATOM	2131	CA	ILE	138	-10.805	10.071	16.732	1.00	0.00
ATOM	2136	C	ILE	138	-11.658	11.194	16.131	1.00	0.00
ATOM	2137	O	ILE	138	-11.168	12.297	15.912	1.00	0.00
ATOM	2132	CB	ILE	138	-10.408	9.038	15.642	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.992	8.525	15.904	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.500	9.625	14.237	1.00	0.00
ATOM	2135	CD1	ILE	138	-8.922	7.037	16.163	1.00	0.00
ATOM	2138	H	ILE	138	-11.647	8.448	17.798	1.00	0.00
ATOM	2139	HA	ILE	138	-9.896	10.507	17.123	1.00	0.00
ATOM	2140	HB	ILE	138	-11.094	8.208	15.702	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.585	9.033	16.768	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.375	8.740	15.044	1.00	0.00
ATOM	2143	1HG2	ILE	138	-11.249	9.090	13.672	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.542	9.532	13.746	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.773	10.668	14.298	1.00	0.00
ATOM	2146	1HD1	ILE	138	-9.809	6.721	16.692	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.050	6.815	16.761	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.858	6.512	15.223	1.00	0.00
ATOM	2149	N	HIS	139	-12.930	10.908	15.871	1.00	0.00
ATOM	2150	CA	HIS	139	-13.842	11.897	15.292	1.00	0.00
ATOM	2157	C	HIS	139	-14.048	13.085	16.227	1.00	0.00
ATOM	2158	O	HIS	139	-14.384	14.179	15.784	1.00	0.00
ATOM	2151	CB	HIS	139	-15.197	11.259	14.968	1.00	0.00
ATOM	2152	CG	HIS	139	-15.186	10.414	13.729	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.929	9.262	13.600	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.501	10.549	12.568	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.702	8.725	12.417	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.843	9.485	11.767	1.00	0.00
ATOM	2159	H	HIS	139	-13.267	10.006	16.070	1.00	0.00
ATOM	2160	HA	HIS	139	-13.401	12.253	14.375	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.932	12.040	14.830	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.498	10.633	15.794	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.545	8.899	14.271	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.808	11.340	12.324	1.00	0.00
ATOM	2165	HE1	HIS	139	-16.139	7.810	12.046	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.675	9.429	10.794	1.00	0.00
ATOM	2167	N	SER	140	-13.867	12.861	17.518	1.00	0.00
ATOM	2168	CA	SER	140	-14.051	13.920	18.508	1.00	0.00
ATOM	2171	C	SER	140	-12.717	14.527	18.958	1.00	0.00
ATOM	2172	O	SER	140	-12.693	15.494	19.719	1.00	0.00
ATOM	2169	CB	SER	140	-14.819	13.364	19.710	1.00	0.00
ATOM	2170	OG	SER	140	-15.859	12.495	19.284	1.00	0.00
ATOM	2173	H	SER	140	-13.619	11.957	17.820	1.00	0.00
ATOM	2174	HA	SER	140	-14.645	14.697	18.047	1.00	0.00
ATOM	2175	1HB	SER	140	-15.251	14.179	20.271	1.00	0.00
ATOM	2176	2HB	SER	140	-14.141	12.809	20.342	1.00	0.00
ATOM	2177	HG	SER	140	-15.493	11.612	19.128	1.00	0.00
ATOM	2178	N	SER	141	-11.611	13.957	18.501	1.00	0.00
ATOM	2179	CA	SER	141	-10.293	14.454	18.882	1.00	0.00
ATOM	2182	C	SER	141	-9.466	14.854	17.663	1.00	0.00
ATOM	2183	O	SER	141	-8.286	14.528	17.568	1.00	0.00
ATOM	2180	CB	SER	141	-9.546	13.402	19.704	1.00	0.00
ATOM	2181	OG	SER	141	-9.121	13.929	20.951	1.00	0.00
ATOM	2184	H	SER	141	-11.679	13.178	17.907	1.00	0.00
ATOM	2185	HA	SER	141	-10.442	15.329	19.494	1.00	0.00



ATOM	2186	1HB	SER	141	-8.678	13.068	19.154	1.00	0.00
ATOM	2187	2HB	SER	141	-10.199	12.562	19.888	1.00	0.00
ATOM	2188	HG	SER	141	-8.435	14.590	20.797	1.00	0.00
ATOM	2189	N	GLY	142	-10.087	15.562	16.735	1.00	0.00
ATOM	2190	CA	GLY	142	-9.382	15.999	15.545	1.00	0.00
ATOM	2191	C	GLY	142	-9.619	15.083	14.373	1.00	0.00
ATOM	2192	O	GLY	142	-10.241	15.466	13.383	1.00	0.00
ATOM	2193	H	GLY	142	-11.030	15.790	16.858	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.323	16.026	15.758	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.710	16.992	15.286	1.00	0.00
ATOM	2196	N	GLY	143	-9.135	13.862	14.492	1.00	0.00
ATOM	2197	CA	GLY	143	-9.315	12.891	13.436	1.00	0.00
ATOM	2198	C	GLY	143	-8.014	12.322	12.935	1.00	0.00
ATOM	2199	O	GLY	143	-6.941	12.773	13.325	1.00	0.00
ATOM	2200	H	GLY	143	-8.660	13.616	15.315	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.828	13.359	12.617	1.00	0.00
ATOM	2202	2HA	GLY	143	-9.916	12.085	13.807	1.00	0.00
ATOM	2203	N	TRP	144	-8.118	11.329	12.062	1.00	0.00
ATOM	2204	CA	TRP	144	-6.950	10.680	11.485	1.00	0.00
ATOM	2215	C	TRP	144	-6.059	11.710	10.810	1.00	0.00
ATOM	2216	O	TRP	144	-4.833	11.624	10.879	1.00	0.00
ATOM	2205	CB	TRP	144	-7.389	9.604	10.486	1.00	0.00
ATOM	2206	CG	TRP	144	-8.046	8.426	11.145	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.382	8.135	11.177	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.391	7.384	11.872	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.595	6.975	11.888	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.387	6.494	12.320	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.056	7.116	12.187	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.088	5.358	13.066	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.762	5.987	12.927	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.773	5.120	13.359	1.00	0.00
ATOM	2217	H	TRP	144	-9.009	11.024	11.796	1.00	0.00
ATOM	2218	HA	TRP	144	-6.398	10.215	12.286	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.523	9.248	9.948	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.091	10.034	9.788	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.148	8.740	10.716	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.471	6.555	12.055	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.263	7.774	11.861	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.857	4.678	13.406	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.730	5.759	13.177	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.497	4.249	13.936	1.00	0.00
ATOM	2227	N	ALA	145	-6.694	12.701	10.188	1.00	0.00
ATOM	2228	CA	ALA	145	-5.981	13.778	9.514	1.00	0.00
ATOM	2230	C	ALA	145	-5.107	14.555	10.496	1.00	0.00
ATOM	2231	O	ALA	145	-4.003	14.980	10.151	1.00	0.00
ATOM	2229	CB	ALA	145	-6.964	14.714	8.825	1.00	0.00
ATOM	2232	H	ALA	145	-7.671	12.713	10.195	1.00	0.00
ATOM	2233	HA	ALA	145	-5.350	13.337	8.757	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.592	15.186	9.567	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.579	14.150	8.140	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.420	15.472	8.281	1.00	0.00
ATOM	2237	N	GLU	146	-5.594	14.719	11.728	1.00	0.00
ATOM	2238	CA	GLU	146	-4.833	15.428	12.753	1.00	0.00
ATOM	2244	C	GLU	146	-3.550	14.657	13.048	1.00	0.00
ATOM	2245	O	GLU	146	-2.466	15.231	13.151	1.00	0.00
ATOM	2239	CB	GLU	146	-5.692	15.612	14.020	1.00	0.00
ATOM	2240	CG	GLU	146	-4.954	15.371	15.331	1.00	0.00
ATOM	2241	CD	GLU	146	-4.838	16.623	16.178	1.00	0.00
ATOM	2242	OE1	GLU	146	-4.661	17.716	15.602	1.00	0.00
ATOM	2243	OE2	GLU	146	-4.917	16.521	17.423	1.00	0.00
ATOM	2246	H	GLU	146	-6.475	14.337	11.959	1.00	0.00
ATOM	2247	HA	GLU	146	-4.572	16.399	12.358	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.531	14.933	13.974	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.067	16.621	14.034	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.961	15.011	15.110	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.489	14.622	15.897	1.00	0.00
ATOM	2252	N	PHE	147	-3.686	13.344	13.147	1.00	0.00
ATOM	2253	CA	PHE	147	-2.556	12.460	13.401	1.00	0.00
ATOM	2261	C	PHE	147	-1.602	12.446	12.207	1.00	0.00
ATOM	2262	O	PHE	147	-0.390	12.303	12.374	1.00	0.00
ATOM	2254	CB	PHE	147	-3.066	11.049	13.705	1.00	0.00
ATOM	2255	CG	PHE	147	-1.987	10.060	14.038	1.00	0.00
ATOM	2256	CD1	PHE	147	-0.919	10.417	14.846	1.00	0.00



ATOM	2257	CD2	PHE	147	-2.041	8.772	13.533	1.00	0.00
ATOM	2258	CE1	PHE	147	0.075	9.507	15.141	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.052	7.857	13.827	1.00	0.00
ATOM	2260	CZ	PHE	147	0.008	8.226	14.630	1.00	0.00
ATOM	2263	H	PHE	147	-4.580	12.955	13.030	1.00	0.00
ATOM	2264	HA	PHE	147	-2.018	12.837	14.260	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.603	10.678	12.844	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.740	11.094	14.547	1.00	0.00
ATOM	2267	HD1	PHE	147	-0.868	11.419	15.246	1.00	0.00
ATOM	2268	HD2	PHE	147	-2.870	8.484	12.904	1.00	0.00
ATOM	2269	HE1	PHE	147	0.903	9.795	15.773	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.105	6.856	13.427	1.00	0.00
ATOM	2271	HZ	PHE	147	0.788	7.512	14.854	1.00	0.00
ATOM	2272	N	THR	148	-2.146	12.617	11.006	1.00	0.00
ATOM	2273	CA	THR	148	-1.318	12.642	9.806	1.00	0.00
ATOM	2277	C	THR	148	-0.468	13.909	9.780	1.00	0.00
ATOM	2278	O	THR	148	0.598	13.941	9.179	1.00	0.00
ATOM	2274	CB	THR	148	-2.157	12.551	8.517	1.00	0.00
ATOM	2275	OG1	THR	148	-3.339	11.784	8.752	1.00	0.00
ATOM	2276	CG2	THR	148	-1.358	11.908	7.393	1.00	0.00
ATOM	2279	H	THR	148	-3.118	12.745	10.928	1.00	0.00
ATOM	2280	HA	THR	148	-0.660	11.785	9.843	1.00	0.00
ATOM	2281	HB	THR	148	-2.439	13.547	8.213	1.00	0.00
ATOM	2282	HG1	THR	148	-3.408	11.568	9.689	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.592	10.853	7.345	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.303	12.034	7.583	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.615	12.377	6.455	1.00	0.00
ATOM	2286	N	ALA	149	-0.938	14.944	10.460	1.00	0.00
ATOM	2287	CA	ALA	149	-0.202	16.193	10.537	1.00	0.00
ATOM	2289	C	ALA	149	0.792	16.135	11.691	1.00	0.00
ATOM	2290	O	ALA	149	1.880	16.698	11.618	1.00	0.00
ATOM	2288	CB	ALA	149	-1.155	17.367	10.704	1.00	0.00
ATOM	2291	H	ALA	149	-1.791	14.858	10.938	1.00	0.00
ATOM	2292	HA	ALA	149	0.342	16.321	9.612	1.00	0.00
ATOM	2293	1HB	ALA	149	-0.588	18.275	10.844	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.785	17.198	11.565	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.769	17.458	9.821	1.00	0.00
ATOM	2296	N	LEU	150	0.390	15.445	12.755	1.00	0.00
ATOM	2297	CA	LEU	150	1.213	15.297	13.952	1.00	0.00
ATOM	2302	C	LEU	150	2.577	14.699	13.634	1.00	0.00
ATOM	2303	O	LEU	150	3.609	15.233	14.040	1.00	0.00
ATOM	2298	CB	LEU	150	0.506	14.407	14.978	1.00	0.00
ATOM	2299	CG	LEU	150	0.058	15.113	16.260	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.452	15.268	16.291	1.00	0.00
ATOM	2301	CD2	LEU	150	0.535	14.345	17.483	1.00	0.00
ATOM	2304	H	LEU	150	-0.498	15.029	12.739	1.00	0.00
ATOM	2305	HA	LEU	150	1.354	16.277	14.380	1.00	0.00
ATOM	2306	1HB	LEU	150	1.180	13.610	15.253	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.361	13.969	14.508	1.00	0.00
ATOM	2308	HG	LEU	150	0.495	16.100	16.291	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.721	16.249	15.928	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.805	15.149	17.305	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.904	14.514	15.663	1.00	0.00
ATOM	2312	1HD2	LEU	150	-0.142	14.522	18.305	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.527	14.679	17.754	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.561	13.289	17.258	1.00	0.00
ATOM	2315	N	TYR	151	2.581	13.575	12.932	1.00	0.00
ATOM	2316	CA	TYR	151	3.836	12.905	12.598	1.00	0.00
ATOM	2325	C	TYR	151	3.922	12.560	11.118	1.00	0.00
ATOM	2326	O	TYR	151	4.535	11.565	10.741	1.00	0.00
ATOM	2317	CB	TYR	151	3.986	11.633	13.431	1.00	0.00
ATOM	2318	CG	TYR	151	4.941	11.770	14.598	1.00	0.00
ATOM	2319	CD1	TYR	151	4.680	12.654	15.636	1.00	0.00
ATOM	2320	CD2	TYR	151	6.098	11.001	14.667	1.00	0.00
ATOM	2321	CE1	TYR	151	5.542	12.772	16.710	1.00	0.00
ATOM	2322	CE2	TYR	151	6.967	11.114	15.737	1.00	0.00
ATOM	2323	CZ	TYR	151	6.684	11.999	16.757	1.00	0.00
ATOM	2324	OH	TYR	151	7.542	12.109	17.826	1.00	0.00
ATOM	2327	H	TYR	151	1.723	13.178	12.649	1.00	0.00
ATOM	2328	HA	TYR	151	4.644	13.577	12.844	1.00	0.00
ATOM	2329	1HB	TYR	151	4.347	10.838	12.796	1.00	0.00
ATOM	2330	2HB	TYR	151	3.020	11.360	13.824	1.00	0.00
ATOM	2331	HD1	TYR	151	3.786	13.259	15.597	1.00	0.00



ATOM	2332	HD2	TYR	151	6.317	10.310	13.868	1.00	0.00
ATOM	2333	HE1	TYR	151	5.317	13.467	17.507	1.00	0.00
ATOM	2334	HE2	TYR	151	7.859	10.508	15.773	1.00	0.00
ATOM	2335	HH	TYR	151	7.554	11.269	18.319	1.00	0.00
ATOM	2336	N	GLY	152	3.314	13.379	10.281	1.00	0.00
ATOM	2337	CA	GLY	152	3.354	13.121	8.857	1.00	0.00
ATOM	2338	C	GLY	152	4.413	13.942	8.158	1.00	0.00
ATOM	2339	O	GLY	152	5.545	14.045	8.634	1.00	0.00
ATOM	2340	H	GLY	152	2.839	14.163	10.627	1.00	0.00
ATOM	2341	1HA	GLY	152	2.391	13.358	8.430	1.00	0.00
ATOM	2342	2HA	GLY	152	3.562	12.074	8.697	1.00	0.00
ATOM	2343	N	ASP	153	4.044	14.527	7.028	1.00	0.00
ATOM	2344	CA	ASP	153	4.967	15.350	6.253	1.00	0.00
ATOM	2349	C	ASP	153	5.355	16.594	7.040	1.00	0.00
ATOM	2350	O	ASP	153	6.537	16.877	7.245	1.00	0.00
ATOM	2345	CB	ASP	153	4.337	15.753	4.917	1.00	0.00
ATOM	2346	CG	ASP	153	5.193	16.743	4.151	1.00	0.00
ATOM	2347	OD1	ASP	153	6.299	16.368	3.717	1.00	0.00
ATOM	2348	OD2	ASP	153	4.767	17.908	3.994	1.00	0.00
ATOM	2351	H	ASP	153	3.128	14.403	6.707	1.00	0.00
ATOM	2352	HA	ASP	153	5.854	14.765	6.063	1.00	0.00
ATOM	2353	1HB	ASP	153	3.373	16.205	5.102	1.00	0.00
ATOM	2354	2HB	ASP	153	4.205	14.872	4.308	1.00	0.00
ATOM	2355	N	GLY	154	4.349	17.324	7.495	1.00	0.00
ATOM	2356	CA	GLY	154	4.591	18.521	8.269	1.00	0.00
ATOM	2357	C	GLY	154	4.580	18.238	9.756	1.00	0.00
ATOM	2358	O	GLY	154	3.727	18.739	10.483	1.00	0.00
ATOM	2359	H	GLY	154	3.430	17.041	7.314	1.00	0.00
ATOM	2360	1HA	GLY	154	3.824	19.246	8.043	1.00	0.00
ATOM	2361	2HA	GLY	154	5.554	18.927	7.995	1.00	0.00
ATOM	2362	N	ALA	155	5.532	17.433	10.203	1.00	0.00
ATOM	2363	CA	ALA	155	5.644	17.076	11.608	1.00	0.00
ATOM	2365	C	ALA	155	6.328	18.194	12.378	1.00	0.00
ATOM	2366	O	ALA	155	7.494	18.087	12.766	1.00	0.00
ATOM	2364	CB	ALA	155	6.406	15.767	11.764	1.00	0.00
ATOM	2367	H	ALA	155	6.179	17.072	9.572	1.00	0.00
ATOM	2368	HA	ALA	155	4.646	16.937	12.000	1.00	0.00
ATOM	2369	1HB	ALA	155	6.957	15.781	12.692	1.00	0.00
ATOM	2370	2HB	ALA	155	7.092	15.649	10.938	1.00	0.00
ATOM	2371	3HB	ALA	155	5.708	14.943	11.772	1.00	0.00
ATOM	2372	N	LEU	156	5.589	19.275	12.577	1.00	0.00
ATOM	2373	CA	LEU	156	6.082	20.440	13.280	1.00	0.00
ATOM	2378	C	LEU	156	6.510	20.085	14.697	1.00	0.00
ATOM	2379	O	LEU	156	6.011	19.128	15.294	1.00	0.00
ATOM	2374	CB	LEU	156	5.002	21.521	13.318	1.00	0.00
ATOM	2375	CG	LEU	156	3.573	21.015	13.538	1.00	0.00
ATOM	2376	CD1	LEU	156	2.894	21.799	14.648	1.00	0.00
ATOM	2377	CD2	LEU	156	2.762	21.115	12.255	1.00	0.00
ATOM	2380	H	LEU	156	4.678	19.291	12.224	1.00	0.00
ATOM	2381	HA	LEU	156	6.937	20.817	12.741	1.00	0.00
ATOM	2382	1HB	LEU	156	5.030	22.062	12.386	1.00	0.00
ATOM	2383	2HB	LEU	156	5.242	22.200	14.115	1.00	0.00
ATOM	2384	HG	LEU	156	3.608	19.976	13.837	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.975	22.857	14.441	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.373	21.578	15.589	1.00	0.00
ATOM	2387	3HD1	LEU	156	1.853	21.522	14.699	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.754	22.140	11.913	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.749	20.791	12.445	1.00	0.00
ATOM	2390	3HD2	LEU	156	3.206	20.485	11.498	1.00	0.00
ATOM	2391	N	GLU	157	7.440	20.867	15.225	1.00	0.00
ATOM	2392	CA	GLU	157	7.965	20.658	16.565	1.00	0.00
ATOM	2398	C	GLU	157	6.862	20.665	17.622	1.00	0.00
ATOM	2399	O	GLU	157	6.996	20.023	18.659	1.00	0.00
ATOM	2393	CB	GLU	157	9.005	21.727	16.883	1.00	0.00
ATOM	2394	CG	GLU	157	10.089	21.862	15.823	1.00	0.00
ATOM	2395	CD	GLU	157	11.336	21.072	16.163	1.00	0.00
ATOM	2396	OE1	GLU	157	12.210	21.608	16.876	1.00	0.00
ATOM	2397	OE2	GLU	157	11.452	19.908	15.725	1.00	0.00
ATOM	2400	H	GLU	157	7.795	21.607	14.691	1.00	0.00
ATOM	2401	HA	GLU	157	8.450	19.698	16.581	1.00	0.00
ATOM	2402	1HB	GLU	157	9.477	21.486	17.820	1.00	0.00
ATOM	2403	2HB	GLU	157	8.504	22.673	16.975	1.00	0.00
ATOM	2404	1HG	GLU	157	10.354	22.904	15.728	1.00	0.00



ATOM	2405	2HG	GLU	157	9.701	21.503	14.881	1.00	0.00
ATOM	2406	N	GLU	158	5.768	21.376	17.353	1.00	0.00
ATOM	2407	CA	GLU	158	4.657	21.437	18.300	1.00	0.00
ATOM	2413	C	GLU	158	3.889	20.124	18.311	1.00	0.00
ATOM	2414	O	GLU	158	3.526	19.617	19.368	1.00	0.00
ATOM	2408	CB	GLU	158	3.708	22.589	17.967	1.00	0.00
ATOM	2409	CG	GLU	158	3.476	23.544	19.127	1.00	0.00
ATOM	2410	CD	GLU	158	2.352	23.100	20.047	1.00	0.00
ATOM	2411	OE1	GLU	158	1.174	23.216	19.655	1.00	0.00
ATOM	2412	OE2	GLU	158	2.645	22.649	21.174	1.00	0.00
ATOM	2415	H	GLU	158	5.705	21.857	16.499	1.00	0.00
ATOM	2416	HA	GLU	158	5.073	21.601	19.283	1.00	0.00
ATOM	2417	1HB	GLU	158	2.756	22.176	17.675	1.00	0.00
ATOM	2418	2HB	GLU	158	4.118	23.150	17.142	1.00	0.00
ATOM	2419	1HG	GLU	158	3.233	24.518	18.730	1.00	0.00
ATOM	2420	2HG	GLU	158	4.386	23.612	19.706	1.00	0.00
ATOM	2421	N	ALA	159	3.660	19.569	17.130	1.00	0.00
ATOM	2422	CA	ALA	159	2.946	18.308	17.005	1.00	0.00
ATOM	2424	C	ALA	159	3.768	17.175	17.603	1.00	0.00
ATOM	2425	O	ALA	159	3.232	16.265	18.236	1.00	0.00
ATOM	2423	CB	ALA	159	2.625	18.027	15.546	1.00	0.00
ATOM	2426	H	ALA	159	3.987	20.013	16.321	1.00	0.00
ATOM	2427	HA	ALA	159	2.016	18.395	17.548	1.00	0.00
ATOM	2428	1HB	ALA	159	1.697	18.514	15.282	1.00	0.00
ATOM	2429	2HB	ALA	159	2.527	16.963	15.397	1.00	0.00
ATOM	2430	3HB	ALA	159	3.421	18.406	14.923	1.00	0.00
ATOM	2431	N	ARG	160	5.076	17.250	17.405	1.00	0.00
ATOM	2432	CA	ARG	160	5.988	16.241	17.923	1.00	0.00
ATOM	2440	C	ARG	160	6.008	16.245	19.449	1.00	0.00
ATOM	2441	O	ARG	160	5.803	15.207	20.081	1.00	0.00
ATOM	2433	CB	ARG	160	7.393	16.471	17.376	1.00	0.00
ATOM	2434	CG	ARG	160	7.589	15.909	15.981	1.00	0.00
ATOM	2435	CD	ARG	160	9.037	15.530	15.738	1.00	0.00
ATOM	2436	NE	ARG	160	9.847	16.689	15.369	1.00	0.00
ATOM	2437	CZ	ARG	160	10.334	16.898	14.146	1.00	0.00
ATOM	2438	NH1	ARG	160	10.067	16.034	13.172	1.00	0.00
ATOM	2439	NH2	ARG	160	11.075	17.971	13.898	1.00	0.00
ATOM	2442	H	ARG	160	5.437	18.008	16.891	1.00	0.00
ATOM	2443	HA	ARG	160	5.638	15.277	17.586	1.00	0.00
ATOM	2444	1HB	ARG	160	8.105	16.001	18.036	1.00	0.00
ATOM	2445	2HB	ARG	160	7.586	17.534	17.345	1.00	0.00
ATOM	2446	1HG	ARG	160	7.293	16.653	15.257	1.00	0.00
ATOM	2447	2HG	ARG	160	6.973	15.028	15.868	1.00	0.00
ATOM	2448	1HD	ARG	160	9.079	14.804	14.940	1.00	0.00
ATOM	2449	2HD	ARG	160	9.439	15.095	16.641	1.00	0.00
ATOM	2450	HE	ARG	160	10.040	17.347	16.082	1.00	0.00
ATOM	2451	1HH1	ARG	160	9.505	15.230	13.355	1.00	0.00
ATOM	2452	2HH1	ARG	160	10.422	16.190	12.239	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.267	18.640	14.634	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.463	18.114	12.983	1.00	0.00
ATOM	2455	N	ARG	161	6.242	17.415	20.043	1.00	0.00
ATOM	2456	CA	ARG	161	6.276	17.530	21.499	1.00	0.00
ATOM	2464	C	ARG	161	4.913	17.199	22.098	1.00	0.00
ATOM	2465	O	ARG	161	4.822	16.666	23.204	1.00	0.00
ATOM	2457	CB	ARG	161	6.728	18.927	21.937	1.00	0.00
ATOM	2458	CG	ARG	161	5.863	20.055	21.407	1.00	0.00
ATOM	2459	CD	ARG	161	6.313	21.399	21.946	1.00	0.00
ATOM	2460	NE	ARG	161	5.211	22.353	22.035	1.00	0.00
ATOM	2461	CZ	ARG	161	5.311	23.564	22.578	1.00	0.00
ATOM	2462	NH1	ARG	161	6.482	24.010	23.019	1.00	0.00
ATOM	2463	NH2	ARG	161	4.240	24.336	22.643	1.00	0.00
ATOM	2466	H	ARG	161	6.393	18.214	19.492	1.00	0.00
ATOM	2467	HA	ARG	161	6.990	16.809	21.861	1.00	0.00
ATOM	2468	1HB	ARG	161	7.739	19.088	21.593	1.00	0.00
ATOM	2469	2HB	ARG	161	6.716	18.973	23.016	1.00	0.00
ATOM	2470	1HG	ARG	161	4.837	19.881	21.698	1.00	0.00
ATOM	2471	2HG	ARG	161	5.934	20.068	20.330	1.00	0.00
ATOM	2472	1HD	ARG	161	7.071	21.799	21.288	1.00	0.00
ATOM	2473	2HD	ARG	161	6.732	21.255	22.932	1.00	0.00
ATOM	2474	HE	ARG	161	4.332	22.067	21.678	1.00	0.00
ATOM	2475	1HH1	ARG	161	7.306	23.435	22.936	1.00	0.00
ATOM	2476	2HH1	ARG	161	6.553	24.918	23.448	1.00	0.00
ATOM	2477	1HH2	ARG	161	3.361	24.003	22.280	1.00	0.00



ATOM	2478	2HH2	ARG	161	4.295	25.255	23.055	1.00	0.00
ATOM	2479	N	LEU	162	3.855	17.500	21.350	1.00	0.00
ATOM	2480	CA	LEU	162	2.501	17.223	21.800	1.00	0.00
ATOM	2485	C	LEU	162	2.273	15.723	21.910	1.00	0.00
ATOM	2486	O	LEU	162	1.629	15.260	22.843	1.00	0.00
ATOM	2481	CB	LEU	162	1.476	17.836	20.847	1.00	0.00
ATOM	2482	CG	LEU	162	0.215	18.374	21.520	1.00	0.00
ATOM	2483	CD1	LEU	162	0.144	19.885	21.379	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.023	17.719	20.928	1.00	0.00
ATOM	2487	H	LEU	162	3.991	17.914	20.471	1.00	0.00
ATOM	2488	HA	LEU	162	2.382	17.663	22.779	1.00	0.00
ATOM	2489	1HB	LEU	162	1.182	17.082	20.132	1.00	0.00
ATOM	2490	2HB	LEU	162	1.951	18.648	20.314	1.00	0.00
ATOM	2491	HG	LEU	162	0.248	18.138	22.573	1.00	0.00
ATOM	2492	1HD1	LEU	162	0.419	20.165	20.373	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.827	20.344	22.080	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.862	20.221	21.585	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.082	16.694	21.262	1.00	0.00
ATOM	2496	2HD2	LEU	162	-0.963	17.742	19.850	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.903	18.254	21.251	1.00	0.00
ATOM	2498	N	ARG	163	2.811	14.966	20.960	1.00	0.00
ATOM	2499	CA	ARG	163	2.659	13.519	20.981	1.00	0.00
ATOM	2507	C	ARG	163	3.430	12.923	22.150	1.00	0.00
ATOM	2508	O	ARG	163	2.921	12.052	22.858	1.00	0.00
ATOM	2500	CB	ARG	163	3.127	12.889	19.668	1.00	0.00
ATOM	2501	CG	ARG	163	2.689	11.441	19.515	1.00	0.00
ATOM	2502	CD	ARG	163	2.896	10.937	18.099	1.00	0.00
ATOM	2503	NE	ARG	163	3.856	9.834	18.048	1.00	0.00
ATOM	2504	CZ	ARG	163	4.010	9.027	17.001	1.00	0.00
ATOM	2505	NH1	ARG	163	3.287	9.214	15.902	1.00	0.00
ATOM	2506	NH2	ARG	163	4.893	8.040	17.053	1.00	0.00
ATOM	2509	H	ARG	163	3.326	15.390	20.237	1.00	0.00
ATOM	2510	HA	ARG	163	1.609	13.303	21.116	1.00	0.00
ATOM	2511	1HB	ARG	163	4.207	12.925	19.626	1.00	0.00
ATOM	2512	2HB	ARG	163	2.723	13.458	18.844	1.00	0.00
ATOM	2513	1HG	ARG	163	1.640	11.367	19.764	1.00	0.00
ATOM	2514	2HG	ARG	163	3.265	10.828	20.191	1.00	0.00
ATOM	2515	1HD	ARG	163	3.264	11.753	17.491	1.00	0.00
ATOM	2516	2HD	ARG	163	1.947	10.599	17.708	1.00	0.00
ATOM	2517	HE	ARG	163	4.417	9.685	18.847	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.623	9.961	15.859	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.411	8.616	15.110	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.450	7.898	17.894	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.023	7.432	16.270	1.00	0.00
ATOM	2522	N	GLU	164	4.650	13.409	22.351	1.00	0.00
ATOM	2523	CA	GLU	164	5.496	12.935	23.440	1.00	0.00
ATOM	2529	C	GLU	164	4.847	13.236	24.787	1.00	0.00
ATOM	2530	O	GLU	164	4.752	12.363	25.656	1.00	0.00
ATOM	2524	CB	GLU	164	6.887	13.572	23.353	1.00	0.00
ATOM	2525	CG	GLU	164	7.800	12.899	22.337	1.00	0.00
ATOM	2526	CD	GLU	164	9.271	13.132	22.623	1.00	0.00
ATOM	2527	OE1	GLU	164	9.594	13.639	23.719	1.00	0.00
ATOM	2528	OE2	GLU	164	10.112	12.784	21.766	1.00	0.00
ATOM	2531	H	GLU	164	4.990	14.109	21.752	1.00	0.00
ATOM	2532	HA	GLU	164	5.594	11.865	23.337	1.00	0.00
ATOM	2533	1HB	GLU	164	7.358	13.514	24.322	1.00	0.00
ATOM	2534	2HB	GLU	164	6.779	14.611	23.076	1.00	0.00
ATOM	2535	1HG	GLU	164	7.573	13.288	21.354	1.00	0.00
ATOM	2536	2HG	GLU	164	7.614	11.833	22.352	1.00	0.00
ATOM	2537	N	GLY	165	4.379	14.467	24.944	1.00	0.00
ATOM	2538	CA	GLY	165	3.726	14.858	26.176	1.00	0.00
ATOM	2539	C	GLY	165	2.389	14.168	26.352	1.00	0.00
ATOM	2540	O	GLY	165	1.899	14.020	27.471	1.00	0.00
ATOM	2541	H	GLY	165	4.467	15.117	24.209	1.00	0.00
ATOM	2542	1HA	GLY	165	3.569	15.926	26.166	1.00	0.00
ATOM	2543	2HA	GLY	165	4.367	14.604	27.008	1.00	0.00
ATOM	2544	N	ASN	166	1.801	13.747	25.241	1.00	0.00
ATOM	2545	CA	ASN	166	0.513	13.072	25.263	1.00	0.00
ATOM	2550	C	ASN	166	0.648	11.653	25.779	1.00	0.00
ATOM	2551	O	ASN	166	-0.068	11.250	26.697	1.00	0.00
ATOM	2546	CB	ASN	166	-0.109	13.038	23.868	1.00	0.00
ATOM	2547	CG	ASN	166	-1.531	13.555	23.861	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.210	13.553	24.887	1.00	0.00



ATOM	2549	ND2	ASN	166	-1.992	13.997	22.703	1.00	0.00
ATOM	2552	H	ASN	166	2.245	13.901	24.381	1.00	0.00
ATOM	2553	HA	ASN	166	-0.140	13.621	25.924	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.115	12.019	23.509	1.00	0.00
ATOM	2555	2HB	ASN	166	0.480	13.645	23.198	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.399	13.967	21.928	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.913	14.331	22.669	1.00	0.00
ATOM	2558	N	TRP	167	1.563	10.886	25.189	1.00	0.00
ATOM	2559	CA	TRP	167	1.751	9.510	25.611	1.00	0.00
ATOM	2570	C	TRP	167	2.271	9.448	27.035	1.00	0.00
ATOM	2571	O	TRP	167	2.055	8.460	27.723	1.00	0.00
ATOM	2560	CB	TRP	167	2.635	8.702	24.635	1.00	0.00
ATOM	2561	CG	TRP	167	4.102	9.048	24.615	1.00	0.00
ATOM	2562	CD1	TRP	167	4.769	9.697	23.618	1.00	0.00
ATOM	2563	CD2	TRP	167	5.090	8.723	25.606	1.00	0.00
ATOM	2564	NE1	TRP	167	6.099	9.818	23.937	1.00	0.00
ATOM	2565	CE2	TRP	167	6.321	9.230	25.152	1.00	0.00
ATOM	2566	CE3	TRP	167	5.050	8.064	26.840	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.499	9.098	25.883	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.218	7.933	27.565	1.00	0.00
ATOM	2569	CH2	TRP	167	7.429	8.448	27.086	1.00	0.00
ATOM	2572	H	TRP	167	2.107	11.251	24.461	1.00	0.00
ATOM	2573	HA	TRP	167	0.766	9.059	25.615	1.00	0.00
ATOM	2574	1HB	TRP	167	2.252	8.841	23.634	1.00	0.00
ATOM	2575	2HB	TRP	167	2.558	7.657	24.889	1.00	0.00
ATOM	2576	HD1	TRP	167	4.302	10.068	22.717	1.00	0.00
ATOM	2577	HE1	TRP	167	6.779	10.258	23.383	1.00	0.00
ATOM	2578	HE3	TRP	167	4.120	7.661	27.226	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.440	9.490	25.527	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.205	7.425	28.519	1.00	0.00
ATOM	2581	HH2	TRP	167	8.318	8.322	27.686	1.00	0.00
ATOM	2582	N	ALA	168	2.926	10.507	27.489	1.00	0.00
ATOM	2583	CA	ALA	168	3.436	10.544	28.850	1.00	0.00
ATOM	2585	C	ALA	168	2.305	10.307	29.847	1.00	0.00
ATOM	2586	O	ALA	168	2.460	9.574	30.823	1.00	0.00
ATOM	2584	CB	ALA	168	4.124	11.871	29.124	1.00	0.00
ATOM	2587	H	ALA	168	3.059	11.284	26.900	1.00	0.00
ATOM	2588	HA	ALA	168	4.164	9.754	28.954	1.00	0.00
ATOM	2589	1HB	ALA	168	5.050	11.695	29.654	1.00	0.00
ATOM	2590	2HB	ALA	168	3.478	12.492	29.727	1.00	0.00
ATOM	2591	3HB	ALA	168	4.332	12.369	28.189	1.00	0.00
ATOM	2592	N	SER	169	1.164	10.930	29.590	1.00	0.00
ATOM	2593	CA	SER	169	0.008	10.787	30.457	1.00	0.00
ATOM	2596	C	SER	169	-0.866	9.579	30.085	1.00	0.00
ATOM	2597	O	SER	169	-1.520	9.000	30.951	1.00	0.00
ATOM	2594	CB	SER	169	-0.827	12.072	30.419	1.00	0.00
ATOM	2595	OG	SER	169	-0.037	13.179	30.007	1.00	0.00
ATOM	2598	H	SER	169	1.097	11.502	28.796	1.00	0.00
ATOM	2599	HA	SER	169	0.374	10.647	31.463	1.00	0.00
ATOM	2600	1HB	SER	169	-1.219	12.273	31.406	1.00	0.00
ATOM	2601	2HB	SER	169	-1.645	11.950	29.725	1.00	0.00
ATOM	2602	HG	SER	169	0.781	13.204	30.533	1.00	0.00
ATOM	2603	N	VAL	170	-0.916	9.220	28.800	1.00	0.00
ATOM	2604	CA	VAL	170	-1.779	8.110	28.368	1.00	0.00
ATOM	2608	C	VAL	170	-1.101	6.737	28.405	1.00	0.00
ATOM	2609	O	VAL	170	-1.741	5.738	28.726	1.00	0.00
ATOM	2605	CB	VAL	170	-2.366	8.339	26.955	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.286	9.550	26.943	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.278	8.493	25.908	1.00	0.00
ATOM	2610	H	VAL	170	-0.400	9.728	28.133	1.00	0.00
ATOM	2611	HA	VAL	170	-2.611	8.081	29.056	1.00	0.00
ATOM	2612	HB	VAL	170	-2.949	7.472	26.696	1.00	0.00
ATOM	2613	1HG1	VAL	170	-2.996	10.215	26.140	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.208	10.070	27.886	1.00	0.00
ATOM	2615	3HG1	VAL	170	-4.304	9.227	26.792	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.284	9.505	25.530	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.461	7.804	25.096	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.318	8.280	26.352	1.00	0.00
ATOM	2619	N	ARG	171	0.175	6.668	28.067	1.00	0.00
ATOM	2620	CA	ARG	171	0.881	5.394	28.058	1.00	0.00
ATOM	2628	C	ARG	171	1.060	4.862	29.471	1.00	0.00
ATOM	2629	O	ARG	171	1.089	3.651	29.687	1.00	0.00
ATOM	2621	CB	ARG	171	2.237	5.533	27.364	1.00	0.00



ATOM	2622	CG	ARG	171	2.634	4.317	26.546	1.00	0.00
ATOM	2623	CD	ARG	171	4.032	4.473	25.970	1.00	0.00
ATOM	2624	NE	ARG	171	5.066	4.241	26.977	1.00	0.00
ATOM	2625	CZ	ARG	171	6.352	4.572	26.822	1.00	0.00
ATOM	2626	NH1	ARG	171	6.778	5.110	25.683	1.00	0.00
ATOM	2627	NH2	ARG	171	7.214	4.365	27.809	1.00	0.00
ATOM	2630	H	ARG	171	0.655	7.488	27.809	1.00	0.00
ATOM	2631	HA	ARG	171	0.277	4.692	27.502	1.00	0.00
ATOM	2632	1HB	ARG	171	2.996	5.701	28.113	1.00	0.00
ATOM	2633	2HB	ARG	171	2.201	6.386	26.703	1.00	0.00
ATOM	2634	1HG	ARG	171	1.931	4.193	25.736	1.00	0.00
ATOM	2635	2HG	ARG	171	2.614	3.444	27.181	1.00	0.00
ATOM	2636	1HD	ARG	171	4.135	5.478	25.583	1.00	0.00
ATOM	2637	2HD	ARG	171	4.156	3.765	25.165	1.00	0.00
ATOM	2638	HE	ARG	171	4.779	3.827	27.830	1.00	0.00
ATOM	2639	1HH1	ARG	171	6.139	5.270	24.930	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.751	5.368	25.577	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.906	3.960	28.672	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.178	4.630	27.702	1.00	0.00
ATOM	2643	N	THR	172	1.178	5.769	30.425	1.00	0.00
ATOM	2644	CA	THR	172	1.355	5.392	31.816	1.00	0.00
ATOM	2648	C	THR	172	0.018	5.105	32.497	1.00	0.00
ATOM	2649	O	THR	172	-0.083	4.187	33.310	1.00	0.00
ATOM	2645	CB	THR	172	2.110	6.487	32.583	1.00	0.00
ATOM	2646	OG1	THR	172	3.024	7.146	31.695	1.00	0.00
ATOM	2647	CG2	THR	172	2.875	5.902	33.761	1.00	0.00
ATOM	2650	H	THR	172	1.152	6.720	30.190	1.00	0.00
ATOM	2651	HA	THR	172	1.951	4.496	31.842	1.00	0.00
ATOM	2652	HB	THR	172	1.395	7.203	32.952	1.00	0.00
ATOM	2653	HG1	THR	172	2.789	8.083	31.620	1.00	0.00
ATOM	2654	1HG2	THR	172	2.283	5.129	34.226	1.00	0.00
ATOM	2655	2HG2	THR	172	3.078	6.683	34.480	1.00	0.00
ATOM	2656	3HG2	THR	172	3.807	5.484	33.411	1.00	0.00
ATOM	2657	N	VAL	173	-1.014	5.877	32.158	1.00	0.00
ATOM	2658	CA	VAL	173	-2.331	5.674	32.755	1.00	0.00
ATOM	2662	C	VAL	173	-2.925	4.328	32.327	1.00	0.00
ATOM	2663	O	VAL	173	-3.710	3.722	33.053	1.00	0.00
ATOM	2659	CB	VAL	173	-3.299	6.840	32.425	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.972	6.663	31.073	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.341	6.997	33.524	1.00	0.00
ATOM	2664	H	VAL	173	-0.888	6.594	31.497	1.00	0.00
ATOM	2665	HA	VAL	173	-2.194	5.653	33.827	1.00	0.00
ATOM	2666	HB	VAL	173	-2.719	7.748	32.386	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.231	6.742	30.291	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.719	7.431	30.940	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.441	5.692	31.029	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.335	8.016	33.884	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.110	6.327	34.338	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.319	6.761	33.130	1.00	0.00
ATOM	2673	N	LEU	174	-2.517	3.852	31.157	1.00	0.00
ATOM	2674	CA	LEU	174	-2.982	2.567	30.649	1.00	0.00
ATOM	2679	C	LEU	174	-1.813	1.600	30.541	1.00	0.00
ATOM	2680	O	LEU	174	-1.761	0.755	29.645	1.00	0.00
ATOM	2675	CB	LEU	174	-3.660	2.725	29.287	1.00	0.00
ATOM	2676	CG	LEU	174	-4.467	4.006	29.108	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.468	4.434	27.652	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.891	3.819	29.612	1.00	0.00
ATOM	2681	H	LEU	174	-1.873	4.373	30.631	1.00	0.00
ATOM	2682	HA	LEU	174	-3.697	2.172	31.356	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.322	1.885	29.139	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.896	2.696	28.523	1.00	0.00
ATOM	2685	791	29.691	1.00	0.00				
ATOM	2686	1HD1	LEU	174	-5.407	4.160	27.196	1.00	0.00
ATOM	2687	2HD1	LEU	174	-3.658	3.944	27.132	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.339	5.505	27.592	1.00	0.00
ATOM	2689	1HD2	LEU	174	-5.907	3.049	30.368	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.528	3.530	28.790	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.248	4.747	30.034	1.00	0.00
ATOM	2692	N	THR	175	-0.862	1.741	31.452	1.00	0.00
ATOM	2693	CA	THR	175	0.321	0.889	31.459	1.00	0.00
ATOM	2697	C	THR	175	0.023	-0.465	32.117	1.00	0.00
ATOM	2698	O	THR	175	0.828	-1.393	32.047	1.00	0.00



ATOM	2694	CB	THR	175	1.511	1.596	32.162	1.00	0.00
ATOM	2695	OG1	THR	175	2.737	1.287	31.484	1.00	0.00
ATOM	2696	CG2	THR	175	1.628	1.205	33.631	1.00	0.00
ATOM	2699	H	THR	175	-0.951	2.448	32.130	1.00	0.00
ATOM	2700	HA	THR	175	0.599	0.712	30.430	1.00	0.00
ATOM	2701	HB	THR	175	1.348	2.664	32.107	1.00	0.00
ATOM	2702	HG1	THR	175	3.316	0.802	32.080	1.00	0.00
ATOM	2703	1HG2	THR	175	1.065	1.902	34.236	1.00	0.00
ATOM	2704	2HG2	THR	175	2.665	1.229	33.929	1.00	0.00
ATOM	2705	3HG2	THR	175	1.237	0.209	33.772	1.00	0.00
ATOM	2706	N	GLY	176	-1.145	-0.574	32.742	1.00	0.00
ATOM	2707	CA	GLY	176	-1.529	-1.817	33.394	1.00	0.00
ATOM	2708	C	GLY	176	-2.311	-2.741	32.479	1.00	0.00
ATOM	2709	O	GLY	176	-2.939	-3.692	32.940	1.00	0.00
ATOM	2710	H	GLY	176	-1.754	0.193	32.759	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.137	-1.584	34.255	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.634	-2.325	33.725	1.00	0.00
ATOM	2713	N	ALA	177	-2.274	-2.464	31.181	1.00	0.00
ATOM	2714	CA	ALA	177	-2.989	-3.277	30.200	1.00	0.00
ATOM	2716	C	ALA	177	-2.135	-4.443	29.708	1.00	0.00
ATOM	2717	O	ALA	177	-2.527	-5.173	28.798	1.00	0.00
ATOM	2715	CB	ALA	177	-3.425	-2.413	29.029	1.00	0.00
ATOM	2718	H	ALA	177	-1.756	-1.693	30.874	1.00	0.00
ATOM	2719	HA	ALA	177	-3.876	-3.672	30.673	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.942	-1.449	29.095	1.00	0.00
ATOM	2721	2HB	ALA	177	-4.496	-2.282	29.058	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.145	-2.893	28.104	1.00	0.00
ATOM	2723	N	VAL	178	-0.972	-4.621	30.319	1.00	0.00
ATOM	2724	CA	VAL	178	-0.066	-5.702	29.952	1.00	0.00
ATOM	2728	C	VAL	178	-0.547	-7.015	30.562	1.00	0.00
ATOM	2729	O	VAL	178	0.032	-7.531	31.520	1.00	0.00
ATOM	2725	CB	VAL	178	1.381	-5.418	30.412	1.00	0.00
ATOM	2726	CG1	VAL	178	2.364	-6.331	29.695	1.00	0.00
ATOM	2727	CG2	VAL	178	1.746	-3.960	30.179	1.00	0.00
ATOM	2730	H	VAL	178	-0.720	-4.018	31.042	1.00	0.00
ATOM	2731	HA	VAL	178	-0.072	-5.792	28.875	1.00	0.00
ATOM	2732	HB	VAL	178	1.446	-5.618	31.472	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.440	-7.267	30.228	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.334	-5.858	29.659	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.016	-6.516	28.690	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.642	-3.726	29.131	1.00	0.00
ATOM	2737	2HG2	VAL	178	2.768	-3.791	30.487	1.00	0.00
ATOM	2738	3HG2	VAL	178	1.087	-3.328	30.756	1.00	0.00
ATOM	2739	N	ALA	179	-1.633	-7.531	30.013	1.00	0.00
ATOM	2740	CA	ALA	179	-2.232	-8.768	30.494	1.00	0.00
ATOM	2742	C	ALA	179	-1.871	-9.947	29.600	1.00	0.00
ATOM	2743	O	ALA	179	-2.411	-11.040	29.756	1.00	0.00
ATOM	2741	CB	ALA	179	-3.744	-8.621	30.576	1.00	0.00
ATOM	2744	H	ALA	179	-2.058	-7.048	29.269	1.00	0.00
ATOM	2745	HA	ALA	179	-1.858	-8.955	31.490	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.080	-8.892	31.567	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.209	-9.273	29.850	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.019	-7.598	30.369	1.00	0.00
ATOM	2749	N	LEU	180	-0.967	-9.724	28.656	1.00	0.00
ATOM	2750	CA	LEU	180	-0.561	-10.781	27.740	1.00	0.00
ATOM	2755	C	LEU	180	0.746	-11.421	28.195	1.00	0.00
ATOM	2756	O	LEU	180	0.918	-12.638	28.096	1.00	0.00
ATOM	2751	CB	LEU	180	-0.425	-10.236	26.317	1.00	0.00
ATOM	2752	CG	LEU	180	-1.403	-9.120	25.947	1.00	0.00
ATOM	2753	CD1	LEU	180	-1.039	-8.518	24.602	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.829	-9.643	25.922	1.00	0.00
ATOM	2757	H	LEU	180	-0.570	-8.832	28.568	1.00	0.00
ATOM	2758	HA	LEU	180	-1.333	-11.534	27.750	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.570	-11.054	25.627	1.00	0.00
ATOM	2760	2HB	LEU	180	0.580	-9.860	26.195	1.00	0.00
ATOM	2761	HG	LEU	180	-1.346	-8.338	26.690	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.350	-7.699	24.749	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.932	-8.154	24.116	1.00	0.00
ATOM	2764	3HD1	LEU	180	-0.575	-9.272	23.984	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.965	-10.277	25.057	1.00	0.00
ATOM	2766	2HD2	LEU	180	-3.518	-8.814	25.872	1.00	0.00
ATOM	2767	3HD2	LEU	180	-3.016	-10.215	26.819	1.00	0.00
ATOM	2768	N	GLY	181	1.661	-10.595	28.688	1.00	0.00



ATOM	2769	CA	GLY	181	2.944	-11.083	29.156	1.00	0.00
ATOM	2770	C	GLY	181	2.823	-11.874	30.444	1.00	0.00
ATOM	2771	O	GLY	181	2.911	-11.313	31.536	1.00	0.00
ATOM	2772	H	GLY	181	1.464	-9.634	28.729	1.00	0.00
ATOM	2773	1HA	GLY	181	3.599	-10.242	29.322	1.00	0.00
ATOM	2774	2HA	GLY	181	3.375	-11.717	28.395	1.00	0.00
ATOM	2775	N	ALA	182	2.613	-13.179	30.316	1.00	0.00
ATOM	2776	CA	ALA	182	2.468	-14.049	31.477	1.00	0.00
ATOM	2778	C	ALA	182	3.785	-14.737	31.812	1.00	0.00
ATOM	2779	O	ALA	182	3.835	-15.636	32.652	1.00	0.00
ATOM	2777	CB	ALA	182	1.378	-15.080	31.224	1.00	0.00
ATOM	2780	H	ALA	182	2.546	-13.566	29.414	1.00	0.00
ATOM	2781	HA	ALA	182	2.166	-13.439	32.316	1.00	0.00
ATOM	2782	1HB	ALA	182	1.784	-15.902	30.653	1.00	0.00
ATOM	2783	2HB	ALA	182	0.570	-14.623	30.673	1.00	0.00
ATOM	2784	3HB	ALA	182	1.006	-15.447	32.169	1.00	0.00
ATOM	2785	N	LEU	183	4.848	-14.303	31.154	1.00	0.00
ATOM	2790	CA	LEU	183	6.172	-14.856	31.368	1.00	0.00
ATOM	2791	C	LEU	183	7.213	-13.848	30.910	1.00	0.00
ATOM	2792	O	LEU	183	8.423	-14.117	31.058	1.00	0.00
ATOM	2786	CB	LEU	183	6.341	-16.172	30.599	1.00	0.00
ATOM	2787	CG	LEU	183	5.772	-16.179	29.178	1.00	0.00
ATOM	2788	CD1	LEU	183	6.895	-16.180	28.154	1.00	0.00
ATOM	2789	CD2	LEU	183	4.864	-17.383	28.974	1.00	0.00
ATOM	2793	OXI	LEU	183	6.806	-12.790	30.391	1.00	0.00
ATOM	2794	H	LEU	183	4.742	-13.576	30.505	1.00	0.00
ATOM	2795	HA	LEU	183	6.296	-15.039	32.424	1.00	0.00
ATOM	2796	1HB	LEU	183	5.854	-16.956	31.160	1.00	0.00
ATOM	2797	2HB	LEU	183	7.395	-16.397	30.542	1.00	0.00
ATOM	2798	HG	LEU	183	5.183	-15.286	29.029	1.00	0.00
ATOM	2799	1HD1	LEU	183	7.481	-17.081	28.262	1.00	0.00
ATOM	2800	2HD1	LEU	183	7.527	-15.318	28.313	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.477	-16.139	27.159	1.00	0.00
ATOM	2802	1HD2	LEU	183	5.410	-18.163	28.462	1.00	0.00
ATOM	2803	2HD2	LEU	183	4.010	-17.093	28.379	1.00	0.00
ATOM	2804	3HD2	LEU	183	4.529	-17.748	29.932	1.00	0.00
ENDMDL									
MODEL					11				
ATOM	3	N	GLY	-4	-26.241	14.200	-27.515	1.00	0.00
ATOM	4	CA	GLY	-4	-25.194	13.466	-26.767	1.00	0.00
ATOM	1	C	GLY	-4	-25.622	13.144	-25.353	1.00	0.00
ATOM	2	O	GLY	-4	-26.515	13.797	-24.811	1.00	0.00
ATOM	5	1HA	GLY	-4	-24.976	12.543	-27.284	1.00	0.00
ATOM	6	2HA	GLY	-4	-24.298	14.069	-26.735	1.00	0.00
ATOM	7	1HT	GLY	-4	-26.687	14.916	-26.903	1.00	0.00
ATOM	8	2HT	GLY	-4	-26.977	13.538	-27.847	1.00	0.00
ATOM	9	3HT	GLY	-4	-25.824	14.675	-28.342	1.00	0.00
ATOM	10	N	PRO	-3	-25.006	12.132	-24.727	1.00	0.00
ATOM	11	CA	PRO	-3	-25.324	11.719	-23.369	1.00	0.00
ATOM	15	C	PRO	-3	-24.516	12.495	-22.331	1.00	0.00
ATOM	16	O	PRO	-3	-23.447	13.028	-22.635	1.00	0.00
ATOM	12	CB	PRO	-3	-24.937	10.233	-23.349	1.00	0.00
ATOM	13	CG	PRO	-3	-24.178	9.969	-24.619	1.00	0.00
ATOM	14	CD	PRO	-3	-23.947	11.295	-25.290	1.00	0.00
ATOM	17	HA	PRO	-3	-26.379	11.825	-23.158	1.00	0.00
ATOM	18	1HB	PRO	-3	-25.833	9.632	-23.298	1.00	0.00
ATOM	19	2HB	PRO	-3	-24.324	10.035	-22.482	1.00	0.00
ATOM	20	1HG	PRO	-3	-24.762	9.325	-25.260	1.00	0.00
ATOM	21	2HG	PRO	-3	-23.233	9.502	-24.387	1.00	0.00
ATOM	22	1HD	PRO	-3	-24.055	11.204	-26.361	1.00	0.00
ATOM	23	2HD	PRO	-3	-22.971	11.683	-25.037	1.00	0.00
ATOM	24	N	LEU	-2	-25.028	12.547	-21.111	1.00	0.00
ATOM	25	CA	LEU	-2	-24.359	13.248	-20.025	1.00	0.00
ATOM	30	C	LEU	-2	-24.748	12.634	-18.688	1.00	0.00
ATOM	31	O	LEU	-2	-25.931	12.468	-18.396	1.00	0.00
ATOM	26	CB	LEU	-2	-24.721	14.736	-20.044	1.00	0.00
ATOM	27	CG	LEU	-2	-23.642	15.660	-20.615	1.00	0.00
ATOM	28	CD1	LEU	-2	-24.252	16.650	-21.594	1.00	0.00
ATOM	29	CD2	LEU	-2	-22.919	16.390	-19.494	1.00	0.00
ATOM	32	H	LEU	-2	-25.881	12.094	-20.929	1.00	0.00
ATOM	33	HA	LEU	-2	-23.293	13.141	-20.165	1.00	0.00
ATOM	34	1HB	LEU	-2	-24.929	15.046	-19.031	1.00	0.00
ATOM	35	2HB	LEU	-2	-25.619	14.859	-20.631	1.00	0.00



ATOM	36	HG	LEU	-2	-22.917	15.064	-21.151	1.00	0.00
ATOM	37	1HD1	LEU	-2	-25.199	17.000	-21.209	1.00	0.00
ATOM	38	2HD1	LEU	-2	-24.410	16.164	-22.546	1.00	0.00
ATOM	39	3HD1	LEU	-2	-23.584	17.488	-21.722	1.00	0.00
ATOM	40	1HD2	LEU	-2	-22.661	17.388	-19.823	1.00	0.00
ATOM	41	2HD2	LEU	-2	-22.019	15.853	-19.236	1.00	0.00
ATOM	42	3HD2	LEU	-2	-23.563	16.452	-18.630	1.00	0.00
ATOM	43	N	GLY	-1	-23.754	12.289	-17.887	1.00	0.00
ATOM	44	CA	GLY	-1	-24.015	11.690	-16.598	1.00	0.00
ATOM	45	C	GLY	-1	-22.760	11.113	-15.985	1.00	0.00
ATOM	46	O	GLY	-1	-21.654	11.412	-16.442	1.00	0.00
ATOM	47	H	GLY	-1	-22.827	12.436	-18.173	1.00	0.00
ATOM	48	1HA	GLY	-1	-24.741	10.900	-16.717	1.00	0.00
ATOM	49	2HA	GLY	-1	-24.418	12.442	-15.934	1.00	0.00
ATOM	50	N	SER	0	-22.927	10.291	-14.959	1.00	0.00
ATOM	51	CA	SER	0	-21.802	9.668	-14.280	1.00	0.00
ATOM	54	C	SER	0	-21.103	8.655	-15.189	1.00	0.00
ATOM	55	O	SER	0	-21.700	8.131	-16.137	1.00	0.00
ATOM	52	CB	SER	0	-22.284	8.986	-12.999	1.00	0.00
ATOM	53	OG	SER	0	-23.580	9.440	-12.636	1.00	0.00
ATOM	56	H	SER	0	-23.840	10.094	-14.645	1.00	0.00
ATOM	57	HA	SER	0	-21.098	10.445	-14.021	1.00	0.00
ATOM	58	1HB	SER	0	-21.600	9.211	-12.195	1.00	0.00
ATOM	59	2HB	SER	0	-22.321	7.917	-13.152	1.00	0.00
ATOM	60	HG	SER	0	-23.793	9.123	-11.748	1.00	0.00
ATOM	61	N	MET	1	-19.837	8.387	-14.901	1.00	0.00
ATOM	62	CA	MET	1	-19.062	7.443	-15.692	1.00	0.00
ATOM	67	C	MET	1	-18.622	6.257	-14.843	1.00	0.00
ATOM	68	O	MET	1	-18.671	5.110	-15.287	1.00	0.00
ATOM	63	CB	MET	1	-17.843	8.135	-16.304	1.00	0.00
ATOM	64	CG	MET	1	-17.907	8.241	-17.819	1.00	0.00
ATOM	65	SD	MET	1	-16.407	8.943	-18.534	1.00	0.00
ATOM	66	CE	MET	1	-16.903	10.651	-18.752	1.00	0.00
ATOM	69	H	MET	1	-19.412	8.836	-14.134	1.00	0.00
ATOM	70	HA	MET	1	-19.696	7.083	-16.489	1.00	0.00
ATOM	71	1HB	MET	1	-16.956	7.576	-16.042	1.00	0.00
ATOM	72	2HB	MET	1	-17.765	9.131	-15.897	1.00	0.00
ATOM	73	1HG	MET	1	-18.745	8.870	-18.086	1.00	0.00
ATOM	74	2HG	MET	1	-18.056	7.254	-18.230	1.00	0.00
ATOM	75	1HE	MET	1	-16.023	11.277	-18.794	1.00	0.00
ATOM	76	2HE	MET	1	-17.522	10.955	-17.921	1.00	0.00
ATOM	77	3HE	MET	1	-17.459	10.750	-19.671	1.00	0.00
ATOM	78	N	ALA	2	-18.197	6.540	-13.619	1.00	0.00
ATOM	79	CA	ALA	2	-17.754	5.499	-12.704	1.00	0.00
ATOM	81	C	ALA	2	-18.079	5.878	-11.266	1.00	0.00
ATOM	82	O	ALA	2	-18.119	7.061	-10.920	1.00	0.00
ATOM	80	CB	ALA	2	-16.262	5.244	-12.867	1.00	0.00
ATOM	83	H	ALA	2	-18.184	7.476	-13.319	1.00	0.00
ATOM	84	HA	ALA	2	-18.281	4.589	-12.954	1.00	0.00
ATOM	85	1HB	ALA	2	-16.042	4.216	-12.621	1.00	0.00
ATOM	86	2HB	ALA	2	-15.712	5.898	-12.206	1.00	0.00
ATOM	87	3HB	ALA	2	-15.973	5.440	-13.889	1.00	0.00
ATOM	88	N	THR	3	-18.322	4.876	-10.434	1.00	0.00
ATOM	89	CA	THR	3	-18.652	5.104	-9.041	1.00	0.00
ATOM	93	C	THR	3	-17.460	4.779	-8.141	1.00	0.00
ATOM	94	O	THR	3	-16.683	3.862	-8.426	1.00	0.00
ATOM	90	CB	THR	3	-19.879	4.264	-8.618	1.00	0.00
ATOM	91	OG1	THR	3	-19.473	2.941	-8.246	1.00	0.00
ATOM	92	CG2	THR	3	-20.899	4.173	-9.747	1.00	0.00
ATOM	95	H	THR	3	-18.283	3.959	-10.764	1.00	0.00
ATOM	96	HA	THR	3	-18.901	6.150	-8.926	1.00	0.00
ATOM	97	HB	THR	3	-20.344	4.741	-7.774	1.00	0.00
ATOM	98	HG1	THR	3	-19.938	2.295	-8.787	1.00	0.00
ATOM	99	1HG2	THR	3	-21.464	3.259	-9.649	1.00	0.00
ATOM	100	2HG2	THR	3	-20.383	4.178	-10.698	1.00	0.00
ATOM	101	3HG2	THR	3	-21.568	5.019	-9.698	1.00	0.00
ATOM	102	N	PRO	4	-17.283	5.535	-7.048	1.00	0.00
ATOM	103	CA	PRO	4	-16.184	5.335	-6.112	1.00	0.00
ATOM	107	C	PRO	4	-16.505	4.257	-5.080	1.00	0.00
ATOM	108	O	PRO	4	-16.933	4.558	-3.965	1.00	0.00
ATOM	104	CB	PRO	4	-16.030	6.704	-5.432	1.00	0.00
ATOM	105	CG	PRO	4	-17.135	7.570	-5.965	1.00	0.00
ATOM	106	CD	PRO	4	-18.123	6.657	-6.635	1.00	0.00



ATOM	109	HA	PRO	4	-15.269	5.078	-6.627	1.00	0.00
ATOM	110	1HB	PRO	4	-15.061	7.116	-5.673	1.00	0.00
ATOM	111	2HB	PRO	4	-16.112	6.582	-4.362	1.00	0.00
ATOM	112	1HG	PRO	4	-16.732	8.275	-6.680	1.00	0.00
ATOM	113	2HG	PRO	4	-17.610	8.097	-5.151	1.00	0.00
ATOM	114	1HD	PRO	4	-18.569	7.143	-7.491	1.00	0.00
ATOM	115	2HD	PRO	4	-18.882	6.340	-5.937	1.00	0.00
ATOM	116	N	ALA	5	-16.313	3.003	-5.468	1.00	0.00
ATOM	117	CA	ALA	5	-16.596	1.874	-4.589	1.00	0.00
ATOM	119	C	ALA	5	-15.580	1.772	-3.451	1.00	0.00
ATOM	120	O	ALA	5	-15.950	1.777	-2.278	1.00	0.00
ATOM	118	CB	ALA	5	-16.628	0.581	-5.389	1.00	0.00
ATOM	121	H	ALA	5	-15.987	2.832	-6.377	1.00	0.00
ATOM	122	HA	ALA	5	-17.578	2.027	-4.164	1.00	0.00
ATOM	123	1HB	ALA	5	-16.812	0.805	-6.430	1.00	0.00
ATOM	124	2HB	ALA	5	-17.415	-0.056	-5.014	1.00	0.00
ATOM	125	3HB	ALA	5	-15.678	0.075	-5.293	1.00	0.00
ATOM	126	N	SER	6	-14.306	1.666	-3.807	1.00	0.00
ATOM	127	CA	SER	6	-13.239	1.545	-2.822	1.00	0.00
ATOM	130	C	SER	6	-12.920	2.888	-2.160	1.00	0.00
ATOM	131	O	SER	6	-12.915	3.934	-2.813	1.00	0.00
ATOM	128	CB	SER	6	-11.988	0.976	-3.491	1.00	0.00
ATOM	129	OG	SER	6	-12.323	0.279	-4.683	1.00	0.00
ATOM	132	H	SER	6	-14.073	1.657	-4.756	1.00	0.00
ATOM	133	HA	SER	6	-13.569	0.854	-2.061	1.00	0.00
ATOM	134	1HB	SER	6	-11.496	0.292	-2.815	1.00	0.00
ATOM	135	2HB	SER	6	-11.314	1.783	-3.738	1.00	0.00
ATOM	136	HG	SER	6	-11.510	0.056	-5.164	1.00	0.00
ATOM	137	N	ALA	7	-12.645	2.838	-0.862	1.00	0.00
ATOM	138	CA	ALA	7	-12.310	4.025	-0.088	1.00	0.00
ATOM	140	C	ALA	7	-11.227	3.692	0.935	1.00	0.00
ATOM	141	O	ALA	7	-11.259	2.625	1.550	1.00	0.00
ATOM	139	CB	ALA	7	-13.548	4.577	0.605	1.00	0.00
ATOM	142	H	ALA	7	-12.660	1.969	-0.407	1.00	0.00
ATOM	143	HA	ALA	7	-11.936	4.775	-0.770	1.00	0.00
ATOM	144	1HB	ALA	7	-14.259	3.779	0.764	1.00	0.00
ATOM	145	2HB	ALA	7	-13.997	5.340	-0.012	1.00	0.00
ATOM	146	3HB	ALA	7	-13.267	5.004	1.556	1.00	0.00
ATOM	147	N	PRO	8	-10.245	4.588	1.121	1.00	0.00
ATOM	148	CA	PRO	8	-9.136	4.383	2.060	1.00	0.00
ATOM	152	C	PRO	8	-9.538	4.615	3.518	1.00	0.00
ATOM	153	O	PRO	8	-8.949	5.448	4.209	1.00	0.00
ATOM	149	CB	PRO	8	-8.084	5.421	1.620	1.00	0.00
ATOM	150	CG	PRO	8	-8.628	6.070	0.386	1.00	0.00
ATOM	151	CD	PRO	8	-10.114	5.869	0.420	1.00	0.00
ATOM	154	HA	PRO	8	-8.721	3.390	1.961	1.00	0.00
ATOM	155	1HB	PRO	8	-7.150	4.918	1.418	1.00	0.00
ATOM	156	2HB	PRO	8	-7.940	6.142	2.410	1.00	0.00
ATOM	157	1HG	PRO	8	-8.207	5.600	-0.490	1.00	0.00
ATOM	158	2HG	PRO	8	-8.395	7.124	0.394	1.00	0.00
ATOM	159	1HD	PRO	8	-10.513	5.804	-0.581	1.00	0.00
ATOM	160	2HD	PRO	8	-10.594	6.665	0.971	1.00	0.00
ATOM	161	N	ASP	9	-10.535	3.871	3.981	1.00	0.00
ATOM	162	CA	ASP	9	-11.002	3.995	5.356	1.00	0.00
ATOM	167	C	ASP	9	-10.240	3.039	6.275	1.00	0.00
ATOM	168	O	ASP	9	-9.144	2.579	5.936	1.00	0.00
ATOM	163	CB	ASP	9	-12.515	3.738	5.445	1.00	0.00
ATOM	164	CG	ASP	9	-13.224	4.725	6.363	1.00	0.00
ATOM	165	OD1	ASP	9	-12.897	4.763	7.567	1.00	0.00
ATOM	166	OD2	ASP	9	-14.115	5.461	5.881	1.00	0.00
ATOM	169	H	ASP	9	-10.962	3.220	3.384	1.00	0.00
ATOM	170	HA	ASP	9	-10.802	5.006	5.678	1.00	0.00
ATOM	171	1HB	ASP	9	-12.681	2.740	5.824	1.00	0.00
ATOM	172	2HB	ASP	9	-12.946	3.819	4.458	1.00	0.00
ATOM	173	N	THR	10	-10.817	2.754	7.434	1.00	0.00
ATOM	174	CA	THR	10	-10.208	1.879	8.431	1.00	0.00
ATOM	178	C	THR	10	-9.796	0.524	7.860	1.00	0.00
ATOM	179	O	THR	10	-8.717	0.027	8.166	1.00	0.00
ATOM	175	CB	THR	10	-11.168	1.649	9.609	1.00	0.00
ATOM	176	OG1	THR	10	-12.504	1.969	9.205	1.00	0.00
ATOM	177	CG2	THR	10	-10.778	2.500	10.810	1.00	0.00
ATOM	180	H	THR	10	-11.688	3.164	7.643	1.00	0.00
ATOM	181	HA	THR	10	-9.325	2.376	8.806	1.00	0.00



ATOM	182	HB	THR	10	-11.124	0.608	9.893	1.00	0.00
ATOM	183	HG1	THR	10	-13.083	1.200	9.357	1.00	0.00
ATOM	184	1HG2	THR	10	-10.108	1.941	11.445	1.00	0.00
ATOM	185	2HG2	THR	10	-11.664	2.766	11.367	1.00	0.00
ATOM	186	3HG2	THR	10	-10.284	3.401	10.471	1.00	0.00
ATOM	187	N	ARG	11	-10.654	-0.075	7.041	1.00	0.00
ATOM	188	CA	ARG	11	-10.359	-1.378	6.449	1.00	0.00
ATOM	196	C	ARG	11	-9.111	-1.318	5.579	1.00	0.00
ATOM	197	O	ARG	11	-8.303	-2.245	5.575	1.00	0.00
ATOM	189	CB	ARG	11	-11.550	-1.879	5.630	1.00	0.00
ATOM	190	CG	ARG	11	-11.574	-3.389	5.454	1.00	0.00
ATOM	191	CD	ARG	11	-12.615	-3.816	4.433	1.00	0.00
ATOM	192	NE	ARG	11	-12.014	-4.151	3.143	1.00	0.00
ATOM	193	CZ	ARG	11	-12.654	-4.065	1.975	1.00	0.00
ATOM	194	NH1	ARG	11	-13.905	-3.619	1.927	1.00	0.00
ATOM	195	NH2	ARG	11	-12.035	-4.424	0.858	1.00	0.00
ATOM	198	H	ARG	11	-11.506	0.366	6.837	1.00	0.00
ATOM	199	HA	ARG	11	-10.169	-2.070	7.256	1.00	0.00
ATOM	200	1HB	ARG	11	-11.517	-1.424	4.651	1.00	0.00
ATOM	201	2HB	ARG	11	-12.462	-1.580	6.124	1.00	0.00
ATOM	202	1HG	ARG	11	-11.804	-3.848	6.404	1.00	0.00
ATOM	203	2HG	ARG	11	-10.602	-3.719	5.119	1.00	0.00
ATOM	204	1HD	ARG	11	-13.318	-3.009	4.294	1.00	0.00
ATOM	205	2HD	ARG	11	-13.138	-4.684	4.811	1.00	0.00
ATOM	206	HE	ARG	11	-11.081	-4.469	3.150	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.379	-3.339	2.772	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.393	-3.561	1.043	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.090	-4.762	0.894	1.00	0.00
ATOM	210	2HH2	ARG	11	-12.504	-4.357	-0.032	1.00	0.00
ATOM	211	N	ALA	12	-8.944	-0.223	4.859	1.00	0.00
ATOM	212	CA	ALA	12	-7.781	-0.058	4.009	1.00	0.00
ATOM	214	C	ALA	12	-6.556	0.272	4.854	1.00	0.00
ATOM	215	O	ALA	12	-5.441	-0.143	4.545	1.00	0.00
ATOM	213	CB	ALA	12	-8.026	1.024	2.970	1.00	0.00
ATOM	216	H	ALA	12	-9.609	0.495	4.912	1.00	0.00
ATOM	217	HA	ALA	12	-7.615	-0.995	3.493	1.00	0.00
ATOM	218	1HB	ALA	12	-8.410	1.908	3.455	1.00	0.00
ATOM	219	2HB	ALA	12	-8.745	0.670	2.246	1.00	0.00
ATOM	220	3HB	ALA	12	-7.099	1.260	2.470	1.00	0.00
ATOM	221	N	LEU	13	-6.774	1.024	5.928	1.00	0.00
ATOM	222	CA	LEU	13	-5.693	1.416	6.821	1.00	0.00
ATOM	227	C	LEU	13	-5.204	0.230	7.656	1.00	0.00
ATOM	228	O	LEU	13	-4.000	0.039	7.822	1.00	0.00
ATOM	223	CB	LEU	13	-6.151	2.566	7.720	1.00	0.00
ATOM	224	CG	LEU	13	-5.351	2.758	9.007	1.00	0.00
ATOM	225	CD1	LEU	13	-4.091	3.567	8.737	1.00	0.00
ATOM	226	CD2	LEU	13	-6.212	3.439	10.058	1.00	0.00
ATOM	229	H	LEU	13	-7.694	1.329	6.123	1.00	0.00
ATOM	230	HA	LEU	13	-4.875	1.763	6.207	1.00	0.00
ATOM	231	1HB	LEU	13	-7.184	2.395	7.986	1.00	0.00
ATOM	232	2HB	LEU	13	-6.091	3.482	7.147	1.00	0.00
ATOM	233	HG	LEU	13	-5.055	1.792	9.388	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.643	3.235	7.812	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.391	3.422	9.548	1.00	0.00
ATOM	236	3HD1	LEU	13	-4.344	4.613	8.662	1.00	0.00
ATOM	237	1HD2	LEU	13	-7.040	2.795	10.317	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.590	4.371	9.665	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.619	3.633	10.939	1.00	0.00
ATOM	240	N	VAL	14	-6.132	-0.574	8.173	1.00	0.00
ATOM	241	CA	VAL	14	-5.755	-1.735	8.974	1.00	0.00
ATOM	245	C	VAL	14	-5.022	-2.751	8.100	1.00	0.00
ATOM	246	O	VAL	14	-4.075	-3.402	8.542	1.00	0.00
ATOM	242	CB	VAL	14	-6.972	-2.396	9.682	1.00	0.00
ATOM	243	CG1	VAL	14	-7.848	-3.167	8.703	1.00	0.00
ATOM	244	CG2	VAL	14	-6.504	-3.307	10.810	1.00	0.00
ATOM	247	H	VAL	14	-7.084	-0.385	8.011	1.00	0.00
ATOM	248	HA	VAL	14	-5.069	-1.389	9.737	1.00	0.00
ATOM	249	HB	VAL	14	-7.575	-1.613	10.118	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.739	-2.597	8.492	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.123	-4.118	9.138	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.301	-3.335	7.787	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.077	-4.223	10.796	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.645	-2.809	11.757	1.00	0.00



ATOM	255	3HG2	VAL	14	-5.457	-3.536	10.677	1.00	0.00
ATOM	256	N	ALA	15	-5.448	-2.860	6.843	1.00	0.00
ATOM	257	CA	ALA	15	-4.815	-3.774	5.901	1.00	0.00
ATOM	259	C	ALA	15	-3.441	-3.250	5.496	1.00	0.00
ATOM	260	O	ALA	15	-2.570	-4.016	5.089	1.00	0.00
ATOM	258	CB	ALA	15	-5.693	-3.971	4.675	1.00	0.00
ATOM	261	H	ALA	15	-6.202	-2.301	6.540	1.00	0.00
ATOM	262	HA	ALA	15	-4.696	-4.729	6.391	1.00	0.00
ATOM	263	1HB	ALA	15	-5.073	-4.196	3.821	1.00	0.00
ATOM	264	2HB	ALA	15	-6.253	-3.067	4.486	1.00	0.00
ATOM	265	3HB	ALA	15	-6.378	-4.787	4.850	1.00	0.00
ATOM	266	N	ASP	16	-3.266	-1.939	5.614	1.00	0.00
ATOM	267	CA	ASP	16	-2.006	-1.285	5.268	1.00	0.00
ATOM	272	C	ASP	16	-0.947	-1.535	6.334	1.00	0.00
ATOM	273	O	ASP	16	0.051	-2.205	6.076	1.00	0.00
ATOM	268	CB	ASP	16	-2.241	0.220	5.091	1.00	0.00
ATOM	269	CG	ASP	16	-1.033	1.085	5.427	1.00	0.00
ATOM	270	OD1	ASP	16	0.007	0.950	4.759	1.00	0.00
ATOM	271	OD2	ASP	16	-1.151	1.939	6.336	1.00	0.00
ATOM	274	H	ASP	16	-4.007	-1.389	5.945	1.00	0.00
ATOM	275	HA	ASP	16	-1.664	-1.698	4.333	1.00	0.00
ATOM	276	1HB	ASP	16	-3.060	0.519	5.731	1.00	0.00
ATOM	277	2HB	ASP	16	-2.512	0.410	4.065	1.00	0.00
ATOM	278	N	PHE	17	-1.169	-0.990	7.525	1.00	0.00
ATOM	279	CA	PHE	17	-0.228	-1.132	8.630	1.00	0.00
ATOM	287	C	PHE	17	0.082	-2.592	8.930	1.00	0.00
ATOM	288	O	PHE	17	1.247	-2.991	8.965	1.00	0.00
ATOM	280	CB	PHE	17	-0.760	-0.451	9.892	1.00	0.00
ATOM	281	CG	PHE	17	0.330	-0.056	10.848	1.00	0.00
ATOM	282	CD1	PHE	17	1.411	0.697	10.416	1.00	0.00
ATOM	283	CD2	PHE	17	0.279	-0.446	12.176	1.00	0.00
ATOM	284	CE1	PHE	17	2.419	1.054	11.292	1.00	0.00
ATOM	285	CE2	PHE	17	1.285	-0.093	13.056	1.00	0.00
ATOM	286	CZ	PHE	17	2.355	0.658	12.613	1.00	0.00
ATOM	289	H	PHE	17	-1.984	-0.458	7.656	1.00	0.00
ATOM	290	HA	PHE	17	0.689	-0.643	8.339	1.00	0.00
ATOM	291	1HB	PHE	17	-1.425	-1.130	10.406	1.00	0.00
ATOM	292	2HB	PHE	17	-1.303	0.439	9.614	1.00	0.00
ATOM	293	HD1	PHE	17	-0.558	-1.032	12.524	1.00	0.00
ATOM	294	HD2	PHE	17	1.462	1.008	9.383	1.00	0.00
ATOM	295	HE1	PHE	17	1.232	-0.403	14.088	1.00	0.00
ATOM	296	HE2	PHE	17	3.255	1.641	10.943	1.00	0.00
ATOM	297	HZ	PHE	17	3.143	0.935	13.300	1.00	0.00
ATOM	298	N	VAL	18	-0.957	-3.386	9.148	1.00	0.00
ATOM	299	CA	VAL	18	-0.772	-4.799	9.446	1.00	0.00
ATOM	303	C	VAL	18	-0.212	-5.525	8.229	1.00	0.00
ATOM	304	O	VAL	18	0.636	-6.405	8.356	1.00	0.00
ATOM	300	CB	VAL	18	-2.091	-5.466	9.898	1.00	0.00
ATOM	301	CG1	VAL	18	-1.876	-6.938	10.223	1.00	0.00
ATOM	302	CG2	VAL	18	-2.673	-4.736	11.100	1.00	0.00
ATOM	305	H	VAL	18	-1.866	-3.015	9.107	1.00	0.00
ATOM	306	HA	VAL	18	-0.057	-4.875	10.254	1.00	0.00
ATOM	307	HB	VAL	18	-2.801	-5.400	9.086	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.984	-7.289	9.724	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.726	-7.510	9.884	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.762	-7.059	11.290	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.338	-3.709	11.093	1.00	0.00
ATOM	312	2HG2	VAL	18	-2.342	-5.216	12.009	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.752	-4.763	11.051	1.00	0.00
ATOM	314	N	GLY	19	-0.669	-5.135	7.048	1.00	0.00
ATOM	315	CA	GLY	19	-0.187	-5.748	5.830	1.00	0.00
ATOM	316	C	GLY	19	1.294	-5.520	5.627	1.00	0.00
ATOM	317	O	GLY	19	2.043	-6.466	5.399	1.00	0.00
ATOM	318	H	GLY	19	-1.330	-4.410	7.001	1.00	0.00
ATOM	319	1HA	GLY	19	-0.724	-5.331	4.991	1.00	0.00
ATOM	320	2HA	GLY	19	-0.377	-6.810	5.875	1.00	0.00
ATOM	321	N	TYR	20	1.707	-4.264	5.708	1.00	0.00
ATOM	322	CA	TYR	20	3.103	-3.888	5.534	1.00	0.00
ATOM	331	C	TYR	20	3.979	-4.502	6.620	1.00	0.00
ATOM	332	O	TYR	20	5.029	-5.068	6.329	1.00	0.00
ATOM	323	CB	TYR	20	3.248	-2.364	5.555	1.00	0.00
ATOM	324	CG	TYR	20	4.500	-1.862	4.869	1.00	0.00
ATOM	325	CD1	TYR	20	5.118	-2.609	3.876	1.00	0.00



ATOM	326	CD2	TYR	20	5.062	-0.639	5.216	1.00	0.00
ATOM	327	CE1	TYR	20	6.259	-2.155	3.247	1.00	0.00
ATOM	328	CE2	TYR	20	6.204	-0.177	4.588	1.00	0.00
ATOM	329	CZ	TYR	20	6.798	-0.939	3.605	1.00	0.00
ATOM	330	OH	TYR	20	7.933	-0.483	2.976	1.00	0.00
ATOM	333	H	TYR	20	1.044	-3.558	5.884	1.00	0.00
ATOM	334	HA	TYR	20	3.425	-4.256	4.570	1.00	0.00
ATOM	335	1HB	TYR	20	3.273	-2.027	6.581	1.00	0.00
ATOM	336	2HB	TYR	20	2.399	-1.921	5.057	1.00	0.00
ATOM	337	HD1	TYR	20	4.595	-0.045	5.987	1.00	0.00
ATOM	338	HD2	TYR	20	4.694	-3.562	3.595	1.00	0.00
ATOM	339	HE1	TYR	20	6.627	0.776	4.871	1.00	0.00
ATOM	340	HE2	TYR	20	6.725	-2.751	2.476	1.00	0.00
ATOM	341	HH	TYR	20	7.840	0.467	2.802	1.00	0.00
ATOM	342	N	LYS	21	3.537	-4.388	7.870	1.00	0.00
ATOM	343	CA	LYS	21	4.276	-4.928	9.009	1.00	0.00
ATOM	349	C	LYS	21	4.504	-6.426	8.858	1.00	0.00
ATOM	350	O	LYS	21	5.558	-6.952	9.216	1.00	0.00
ATOM	344	CB	LYS	21	3.522	-4.652	10.311	1.00	0.00
ATOM	345	CG	LYS	21	4.332	-3.869	11.330	1.00	0.00
ATOM	346	CD	LYS	21	5.285	-4.774	12.096	1.00	0.00
ATOM	347	CE	LYS	21	6.001	-4.020	13.200	1.00	0.00
ATOM	348	NZ	LYS	21	7.176	-3.262	12.691	1.00	0.00
ATOM	351	H	LYS	21	2.687	-3.926	8.030	1.00	0.00
ATOM	352	HA	LYS	21	5.235	-4.433	9.047	1.00	0.00
ATOM	353	1HB	LYS	21	3.240	-5.593	10.757	1.00	0.00
ATOM	354	2HB	LYS	21	2.628	-4.089	10.084	1.00	0.00
ATOM	355	1HG	LYS	21	3.654	-3.399	12.030	1.00	0.00
ATOM	356	2HG	LYS	21	4.906	-3.110	10.817	1.00	0.00
ATOM	357	1HD	LYS	21	6.018	-5.173	11.408	1.00	0.00
ATOM	358	2HD	LYS	21	4.723	-5.585	12.535	1.00	0.00
ATOM	359	1HE	LYS	21	6.333	-4.728	13.946	1.00	0.00
ATOM	360	2HE	LYS	21	5.306	-3.325	13.651	1.00	0.00
ATOM	361	1HZ	LYS	21	7.842	-3.903	12.218	1.00	0.00
ATOM	362	2HZ	LYS	21	7.671	-2.795	13.488	1.00	0.00
ATOM	363	3HZ	LYS	21	6.869	-2.531	12.009	1.00	0.00
ATOM	364	N	LEU	22	3.512	-7.107	8.316	1.00	0.00
ATOM	365	CA	LEU	22	3.603	-8.536	8.107	1.00	0.00
ATOM	370	C	LEU	22	4.442	-8.816	6.874	1.00	0.00
ATOM	371	O	LEU	22	5.337	-9.649	6.904	1.00	0.00
ATOM	366	CB	LEU	22	2.208	-9.148	7.941	1.00	0.00
ATOM	367	CG	LEU	22	1.560	-9.682	9.223	1.00	0.00
ATOM	368	CD1	LEU	22	1.551	-8.619	10.310	1.00	0.00
ATOM	369	CD2	LEU	22	0.144	-10.156	8.935	1.00	0.00
ATOM	372	H	LEU	22	2.700	-6.634	8.045	1.00	0.00
ATOM	373	HA	LEU	22	4.086	-8.973	8.969	1.00	0.00
ATOM	374	1HB	LEU	22	2.281	-9.964	7.238	1.00	0.00
ATOM	375	2HB	LEU	22	1.557	-8.394	7.523	1.00	0.00
ATOM	376	HG	LEU	22	2.128	-10.525	9.591	1.00	0.00
ATOM	377	1HD1	LEU	22	0.744	-7.924	10.127	1.00	0.00
ATOM	378	2HD1	LEU	22	2.492	-8.088	10.301	1.00	0.00
ATOM	379	3HD1	LEU	22	1.412	-9.087	11.272	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.349	-10.405	9.863	1.00	0.00
ATOM	381	2HD2	LEU	22	0.181	-11.030	8.301	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.403	-9.371	8.435	1.00	0.00
ATOM	383	N	ARG	23	4.144	-8.101	5.796	1.00	0.00
ATOM	384	CA	ARG	23	4.854	-8.251	4.530	1.00	0.00
ATOM	392	C	ARG	23	6.346	-7.965	4.678	1.00	0.00
ATOM	393	O	ARG	23	7.159	-8.475	3.912	1.00	0.00
ATOM	385	CB	ARG	23	4.246	-7.315	3.477	1.00	0.00
ATOM	386	CG	ARG	23	3.835	-8.006	2.194	1.00	0.00
ATOM	387	CD	ARG	23	3.605	-6.998	1.080	1.00	0.00
ATOM	388	NE	ARG	23	4.785	-6.167	0.834	1.00	0.00
ATOM	389	CZ	ARG	23	5.093	-5.631	-0.350	1.00	0.00
ATOM	390	NH1	ARG	23	4.326	-5.852	-1.411	1.00	0.00
ATOM	391	NH2	ARG	23	6.177	-4.878	-0.478	1.00	0.00
ATOM	394	H	ARG	23	3.414	-7.444	5.853	1.00	0.00
ATOM	395	HA	ARG	23	4.729	-9.272	4.202	1.00	0.00
ATOM	396	1HB	ARG	23	4.963	-6.552	3.226	1.00	0.00
ATOM	397	2HB	ARG	23	3.370	-6.845	3.898	1.00	0.00
ATOM	398	1HG	ARG	23	2.919	-8.555	2.366	1.00	0.00
ATOM	399	2HG	ARG	23	4.616	-8.688	1.894	1.00	0.00
ATOM	400	1HD	ARG	23	2.771	-6.360	1.356	1.00	0.00



ATOM	401	2HD	ARG	23	3.360	-7.534	0.174	1.00	0.00
ATOM	402	HE	ARG	23	5.381	-5.996	1.600	1.00	0.00
ATOM	403	1HH1	ARG	23	3.511	-6.422	-1.337	1.00	0.00
ATOM	404	2HH1	ARG	23	4.561	-5.428	-2.301	1.00	0.00
ATOM	405	1HH2	ARG	23	6.776	-4.705	0.317	1.00	0.00
ATOM	406	2HH2	ARG	23	6.407	-4.472	-1.368	1.00	0.00
ATOM	407	N	GLN	24	6.700	-7.137	5.649	1.00	0.00
ATOM	408	CA	GLN	24	8.094	-6.785	5.868	1.00	0.00
ATOM	414	C	GLN	24	8.821	-7.798	6.755	1.00	0.00
ATOM	415	O	GLN	24	10.043	-7.735	6.888	1.00	0.00
ATOM	409	CB	GLN	24	8.200	-5.390	6.482	1.00	0.00
ATOM	410	CG	GLN	24	7.988	-5.385	7.980	1.00	0.00
ATOM	411	CD	GLN	24	7.963	-3.992	8.578	1.00	0.00
ATOM	412	OE1	GLN	24	6.999	-3.244	8.413	1.00	0.00
ATOM	413	NE2	GLN	24	9.020	-3.633	9.289	1.00	0.00
ATOM	416	H	GLN	24	6.004	-6.738	6.226	1.00	0.00
ATOM	417	HA	GLN	24	8.576	-6.767	4.912	1.00	0.00
ATOM	418	1HB	GLN	24	7.457	-4.749	6.031	1.00	0.00
ATOM	419	2HB	GLN	24	9.181	-4.996	6.277	1.00	0.00
ATOM	420	1HG	GLN	24	8.788	-5.948	8.439	1.00	0.00
ATOM	421	2HG	GLN	24	7.048	-5.868	8.187	1.00	0.00
ATOM	422	1HE2	GLN	24	9.754	-4.277	9.391	1.00	0.00
ATOM	423	2HE2	GLN	24	9.028	-2.736	9.690	1.00	0.00
ATOM	424	N	LYS	25	8.087	-8.710	7.388	1.00	0.00
ATOM	425	CA	LYS	25	8.728	-9.681	8.278	1.00	0.00
ATOM	431	C	LYS	25	8.284	-11.131	8.044	1.00	0.00
ATOM	432	O	LYS	25	9.120	-12.009	7.835	1.00	0.00
ATOM	426	CB	LYS	25	8.468	-9.300	9.738	1.00	0.00
ATOM	427	CG	LYS	25	9.685	-9.464	10.636	1.00	0.00
ATOM	428	CD	LYS	25	9.288	-9.824	12.060	1.00	0.00
ATOM	429	CE	LYS	25	10.174	-10.924	12.627	1.00	0.00
ATOM	430	NZ	LYS	25	11.086	-10.419	13.690	1.00	0.00
ATOM	433	H	LYS	25	7.111	-8.711	7.274	1.00	0.00
ATOM	434	HA	LYS	25	9.790	-9.623	8.101	1.00	0.00
ATOM	435	1HB	LYS	25	7.676	-9.924	10.124	1.00	0.00
ATOM	436	2HB	LYS	25	8.154	-8.268	9.777	1.00	0.00
ATOM	437	1HG	LYS	25	10.237	-8.537	10.650	1.00	0.00
ATOM	438	2HG	LYS	25	10.310	-10.250	10.238	1.00	0.00
ATOM	439	1HD	LYS	25	8.263	-10.164	12.061	1.00	0.00
ATOM	440	2HD	LYS	25	9.379	-8.947	12.681	1.00	0.00
ATOM	441	1HE	LYS	25	10.767	-11.340	11.824	1.00	0.00
ATOM	442	2HE	LYS	25	9.545	-11.696	13.044	1.00	0.00
ATOM	443	1HZ	LYS	25	11.764	-9.734	13.288	1.00	0.00
ATOM	444	2HZ	LYS	25	11.623	-11.210	14.108	1.00	0.00
ATOM	445	3HZ	LYS	25	10.542	-9.952	14.442	1.00	0.00
ATOM	446	N	GLY	26	6.987	-11.390	8.119	1.00	0.00
ATOM	447	CA	GLY	26	6.495	-12.750	7.951	1.00	0.00
ATOM	448	C	GLY	26	5.825	-12.993	6.616	1.00	0.00
ATOM	449	O	GLY	26	6.225	-13.875	5.858	1.00	0.00
ATOM	450	H	GLY	26	6.359	-10.661	8.310	1.00	0.00
ATOM	451	1HA	GLY	26	5.783	-12.956	8.737	1.00	0.00
ATOM	452	2HA	GLY	26	7.320	-13.433	8.050	1.00	0.00
ATOM	453	N	TYR	27	4.802	-12.208	6.335	1.00	0.00
ATOM	454	CA	TYR	27	4.041	-12.316	5.096	1.00	0.00
ATOM	463	C	TYR	27	4.789	-11.665	3.932	1.00	0.00
ATOM	464	O	TYR	27	4.207	-10.915	3.150	1.00	0.00
ATOM	455	CB	TYR	27	2.675	-11.647	5.293	1.00	0.00
ATOM	456	CG	TYR	27	1.580	-12.140	4.370	1.00	0.00
ATOM	457	CD1	TYR	27	1.514	-13.469	3.966	1.00	0.00
ATOM	458	CD2	TYR	27	0.602	-11.267	3.914	1.00	0.00
ATOM	459	CE1	TYR	27	0.501	-13.911	3.133	1.00	0.00
ATOM	460	CE2	TYR	27	-0.411	-11.699	3.082	1.00	0.00
ATOM	461	CZ	TYR	27	-0.458	-13.020	2.694	1.00	0.00
ATOM	462	OH	TYR	27	-1.472	-13.451	1.867	1.00	0.00
ATOM	465	H	TYR	27	4.547	-11.526	6.986	1.00	0.00
ATOM	466	HA	TYR	27	3.894	-13.364	4.881	1.00	0.00
ATOM	467	1HB	TYR	27	2.783	-10.584	5.138	1.00	0.00
ATOM	468	2HB	TYR	27	2.347	-11.822	6.305	1.00	0.00
ATOM	469	HD1	TYR	27	2.266	-14.161	4.311	1.00	0.00
ATOM	470	HD2	TYR	27	0.640	-10.232	4.219	1.00	0.00
ATOM	471	HE1	TYR	27	0.464	-14.946	2.829	1.00	0.00
ATOM	472	HE2	TYR	27	-1.160	-11.002	2.738	1.00	0.00
ATOM	473	HH	TYR	27	-1.094	-13.831	1.067	1.00	0.00



ATOM	474	N	VAL	28	6.077	-11.958	3.821	1.00	0.00
ATOM	475	CA	VAL	28	6.899	-11.398	2.758	1.00	0.00
ATOM	479	C	VAL	28	6.644	-12.138	1.449	1.00	0.00
ATOM	480	O	VAL	28	6.693	-11.550	0.368	1.00	0.00
ATOM	476	CB	VAL	28	8.405	-11.442	3.124	1.00	0.00
ATOM	477	CG1	VAL	28	8.870	-12.868	3.383	1.00	0.00
ATOM	478	CG2	VAL	28	9.250	-10.789	2.039	1.00	0.00
ATOM	481	H	VAL	28	6.487	-12.566	4.475	1.00	0.00
ATOM	482	HA	VAL	28	6.611	-10.364	2.630	1.00	0.00
ATOM	483	HB	VAL	28	8.543	-10.880	4.036	1.00	0.00
ATOM	484	1HG1	VAL	28	8.948	-13.034	4.447	1.00	0.00
ATOM	485	2HG1	VAL	28	9.836	-13.021	2.922	1.00	0.00
ATOM	486	3HG1	VAL	28	8.156	-13.561	2.962	1.00	0.00
ATOM	487	1HG2	VAL	28	8.682	-10.004	1.564	1.00	0.00
ATOM	488	2HG2	VAL	28	9.526	-11.530	1.304	1.00	0.00
ATOM	489	3HG2	VAL	28	10.143	-10.371	2.482	1.00	0.00
ATOM	490	N	CYS	29	6.336	-13.424	1.561	1.00	0.00
ATOM	491	CA	CYS	29	6.038	-14.246	0.400	1.00	0.00
ATOM	494	C	CYS	29	4.723	-13.789	-0.218	1.00	0.00
ATOM	495	O	CYS	29	4.578	-13.719	-1.440	1.00	0.00
ATOM	492	CB	CYS	29	5.951	-15.715	0.810	1.00	0.00
ATOM	493	SG	CYS	29	6.555	-16.041	2.485	1.00	0.00
ATOM	496	H	CYS	29	6.289	-13.824	2.453	1.00	0.00
ATOM	497	HA	CYS	29	6.833	-14.118	-0.320	1.00	0.00
ATOM	498	1HB	CYS	29	6.539	-16.307	0.127	1.00	0.00
ATOM	499	2HB	CYS	29	4.921	-16.037	0.764	1.00	0.00
ATOM	500	HG	CYS	29	7.586	-16.874	2.393	1.00	0.00
ATOM	501	N	GLY	30	3.781	-13.449	0.648	1.00	0.00
ATOM	502	CA	GLY	30	2.492	-12.970	0.206	1.00	0.00
ATOM	503	C	GLY	30	2.485	-11.468	0.038	1.00	0.00
ATOM	504	O	GLY	30	1.704	-10.760	0.677	1.00	0.00
ATOM	505	H	GLY	30	3.974	-13.504	1.605	1.00	0.00
ATOM	506	1HA	GLY	30	1.747	-13.242	0.931	1.00	0.00
ATOM	507	2HA	GLY	30	2.249	-13.431	-0.741	1.00	0.00
ATOM	508	N	ALA	31	3.373	-10.987	-0.815	1.00	0.00
ATOM	509	CA	ALA	31	3.495	-9.564	-1.085	1.00	0.00
ATOM	511	C	ALA	31	2.214	-9.029	-1.714	1.00	0.00
ATOM	512	O	ALA	31	1.896	-9.350	-2.856	1.00	0.00
ATOM	510	CB	ALA	31	4.689	-9.299	-1.991	1.00	0.00
ATOM	513	H	ALA	31	3.966	-11.616	-1.275	1.00	0.00
ATOM	514	HA	ALA	31	3.664	-9.059	-0.145	1.00	0.00
ATOM	515	1HB	ALA	31	5.515	-9.929	-1.691	1.00	0.00
ATOM	516	2HB	ALA	31	4.980	-8.263	-1.910	1.00	0.00
ATOM	517	3HB	ALA	31	4.422	-9.521	-3.014	1.00	0.00
ATOM	518	N	GLY	32	1.473	-8.225	-0.957	1.00	0.00
ATOM	519	CA	GLY	32	0.226	-7.687	-1.469	1.00	0.00
ATOM	520	C	GLY	32	-0.404	-6.652	-0.554	1.00	0.00
ATOM	521	O	GLY	32	-0.639	-5.525	-0.978	1.00	0.00
ATOM	522	H	GLY	32	1.765	-8.010	-0.044	1.00	0.00
ATOM	523	1HA	GLY	32	-0.471	-8.502	-1.604	1.00	0.00
ATOM	524	2HA	GLY	32	0.415	-7.231	-2.428	1.00	0.00
ATOM	525	N	PRO	33	-0.698	-6.991	0.714	1.00	0.00
ATOM	526	CA	PRO	33	-1.316	-6.047	1.654	1.00	0.00
ATOM	530	C	PRO	33	-0.417	-4.845	1.909	1.00	0.00
ATOM	531	O	PRO	33	-0.838	-3.699	1.782	1.00	0.00
ATOM	527	CB	PRO	33	-1.508	-6.874	2.932	1.00	0.00
ATOM	528	CG	PRO	33	-1.437	-8.293	2.485	1.00	0.00
ATOM	529	CD	PRO	33	-0.470	-8.302	1.339	1.00	0.00
ATOM	532	HA	PRO	33	-2.276	-5.705	1.296	1.00	0.00
ATOM	533	1HB	PRO	33	-2.467	-6.648	3.372	1.00	0.00
ATOM	534	2HB	PRO	33	-0.721	-6.643	3.636	1.00	0.00
ATOM	535	1HG	PRO	33	-2.412	-8.625	2.159	1.00	0.00
ATOM	536	2HG	PRO	33	-1.076	-8.915	3.291	1.00	0.00
ATOM	537	1HD	PRO	33	-0.691	-9.099	0.653	1.00	0.00
ATOM	538	2HD	PRO	33	0.545	-8.384	1.703	1.00	0.00
ATOM	539	N	GLY	34	0.836	-5.123	2.241	1.00	0.00
ATOM	540	CA	GLY	34	1.794	-4.066	2.486	1.00	0.00
ATOM	541	C	GLY	34	2.462	-3.586	1.214	1.00	0.00
ATOM	542	O	GLY	34	3.591	-3.105	1.245	1.00	0.00
ATOM	543	H	GLY	34	1.113	-6.055	2.308	1.00	0.00
ATOM	544	1HA	GLY	34	2.554	-4.437	3.157	1.00	0.00
ATOM	545	2HA	GLY	34	1.292	-3.235	2.956	1.00	0.00
ATOM	546	N	GLU	35	1.772	-3.721	0.086	1.00	0.00



ATOM	547	CA	GLU	35	2.325	-3.288	-1.186	1.00	0.00
ATOM	553	C	GLU	35	2.225	-1.766	-1.306	1.00	0.00
ATOM	554	O	GLU	35	3.078	-1.118	-1.918	1.00	0.00
ATOM	548	CB	GLU	35	1.614	-4.002	-2.345	1.00	0.00
ATOM	549	CG	GLU	35	0.928	-3.081	-3.340	1.00	0.00
ATOM	550	CD	GLU	35	1.709	-2.934	-4.630	1.00	0.00
ATOM	551	OE1	GLU	35	2.795	-3.546	-4.748	1.00	0.00
ATOM	552	OE2	GLU	35	1.244	-2.200	-5.528	1.00	0.00
ATOM	555	H	GLU	35	0.875	-4.119	0.111	1.00	0.00
ATOM	556	HA	GLU	35	3.370	-3.566	-1.192	1.00	0.00
ATOM	557	1HB	GLU	35	0.869	-4.667	-1.933	1.00	0.00
ATOM	558	2HB	GLU	35	2.343	-4.588	-2.884	1.00	0.00
ATOM	559	1HG	GLU	35	0.817	-2.105	-2.889	1.00	0.00
ATOM	560	2HG	GLU	35	-0.046	-3.484	-3.568	1.00	0.00
ATOM	561	N	GLY	36	1.191	-1.206	-0.689	1.00	0.00
ATOM	562	CA	GLY	36	0.998	0.228	-0.702	1.00	0.00
ATOM	563	C	GLY	36	1.600	0.865	0.531	1.00	0.00
ATOM	564	O	GLY	36	1.290	0.462	1.646	1.00	0.00
ATOM	565	H	GLY	36	0.563	-1.774	-0.197	1.00	0.00
ATOM	566	1HA	GLY	36	-0.059	0.443	-0.728	1.00	0.00
ATOM	567	2HA	GLY	36	1.468	0.642	-1.583	1.00	0.00
ATOM	568	N	PRO	37	2.494	1.846	0.362	1.00	0.00
ATOM	569	CA	PRO	37	3.157	2.505	1.480	1.00	0.00
ATOM	573	C	PRO	37	2.375	3.696	2.043	1.00	0.00
ATOM	574	O	PRO	37	1.143	3.748	1.991	1.00	0.00
ATOM	570	CB	PRO	37	4.464	2.972	0.847	1.00	0.00
ATOM	571	CG	PRO	37	4.107	3.280	-0.568	1.00	0.00
ATOM	572	CD	PRO	37	2.958	2.369	-0.934	1.00	0.00
ATOM	575	HA	PRO	37	3.373	1.810	2.277	1.00	0.00
ATOM	576	1HB	PRO	37	5.199	2.183	0.904	1.00	0.00
ATOM	577	2HB	PRO	37	4.826	3.849	1.364	1.00	0.00
ATOM	578	1HG	PRO	37	4.956	3.085	-1.207	1.00	0.00
ATOM	579	2HG	PRO	37	3.807	4.314	-0.651	1.00	0.00
ATOM	580	1HD	PRO	37	3.301	1.566	-1.571	1.00	0.00
ATOM	581	2HD	PRO	37	2.174	2.928	-1.423	1.00	0.00
ATOM	582	N	ALA	38	3.113	4.656	2.580	1.00	0.00
ATOM	583	CA	ALA	38	2.532	5.852	3.162	1.00	0.00
ATOM	585	C	ALA	38	2.116	6.848	2.085	1.00	0.00
ATOM	586	O	ALA	38	2.852	7.784	1.773	1.00	0.00
ATOM	584	CB	ALA	38	3.532	6.481	4.117	1.00	0.00
ATOM	587	H	ALA	38	4.086	4.557	2.579	1.00	0.00
ATOM	588	HA	ALA	38	1.658	5.564	3.732	1.00	0.00
ATOM	589	1HB	ALA	38	3.122	7.399	4.515	1.00	0.00
ATOM	590	2HB	ALA	38	4.448	6.697	3.588	1.00	0.00
ATOM	591	3HB	ALA	38	3.735	5.798	4.927	1.00	0.00
ATOM	592	N	ALA	39	0.935	6.642	1.518	1.00	0.00
ATOM	593	CA	ALA	39	0.425	7.524	0.475	1.00	0.00
ATOM	595	C	ALA	39	-1.021	7.911	0.759	1.00	0.00
ATOM	596	O	ALA	39	-1.788	8.209	-0.154	1.00	0.00
ATOM	594	CB	ALA	39	0.540	6.851	-0.885	1.00	0.00
ATOM	597	H	ALA	39	0.390	5.875	1.804	1.00	0.00
ATOM	598	HA	ALA	39	1.034	8.417	0.464	1.00	0.00
ATOM	599	1HB	ALA	39	-0.428	6.841	-1.365	1.00	0.00
ATOM	600	2HB	ALA	39	0.888	5.837	-0.756	1.00	0.00
ATOM	601	3HB	ALA	39	1.241	7.396	-1.498	1.00	0.00
ATOM	602	N	ASP	40	-1.384	7.900	2.033	1.00	0.00
ATOM	603	CA	ASP	40	-2.734	8.241	2.448	1.00	0.00
ATOM	608	C	ASP	40	-2.692	9.161	3.659	1.00	0.00
ATOM	609	O	ASP	40	-1.678	9.223	4.360	1.00	0.00
ATOM	604	CB	ASP	40	-3.527	6.977	2.792	1.00	0.00
ATOM	605	CG	ASP	40	-3.804	6.111	1.583	1.00	0.00
ATOM	606	OD1	ASP	40	-4.846	6.313	0.929	1.00	0.00
ATOM	607	OD2	ASP	40	-2.976	5.230	1.288	1.00	0.00
ATOM	610	H	ASP	40	-0.730	7.660	2.710	1.00	0.00
ATOM	611	HA	ASP	40	-3.218	8.754	1.629	1.00	0.00
ATOM	612	1HB	ASP	40	-4.471	7.269	3.227	1.00	0.00
ATOM	613	2HB	ASP	40	-2.970	6.393	3.509	1.00	0.00
ATOM	614	N	PRO	41	-3.801	9.865	3.936	1.00	0.00
ATOM	615	CA	PRO	41	-3.908	10.779	5.072	1.00	0.00
ATOM	619	C	PRO	41	-4.155	10.042	6.387	1.00	0.00
ATOM	620	O	PRO	41	-5.063	10.375	7.147	1.00	0.00
ATOM	616	CB	PRO	41	-5.095	11.670	4.704	1.00	0.00
ATOM	617	CG	PRO	41	-5.931	10.868	3.761	1.00	0.00



ATOM	618	CD	PRO	41	-5.048	9.801	3.161	1.00	0.00
ATOM	621	HA	PRO	41	-3.021	11.387	5.170	1.00	0.00
ATOM	622	1HB	PRO	41	-4.734	12.572	4.233	1.00	0.00
ATOM	623	2HB	PRO	41	-5.645	11.923	5.598	1.00	0.00
ATOM	624	1HG	PRO	41	-6.316	11.512	2.985	1.00	0.00
ATOM	625	2HG	PRO	41	-6.748	10.410	4.301	1.00	0.00
ATOM	626	1HD	PRO	41	-4.859	10.001	2.118	1.00	0.00
ATOM	627	2HD	PRO	41	-5.509	8.831	3.272	1.00	0.00
ATOM	628	N	LEU	42	-3.312	9.044	6.631	1.00	0.00
ATOM	629	CA	LEU	42	-3.357	8.218	7.834	1.00	0.00
ATOM	634	C	LEU	42	-2.245	7.185	7.754	1.00	0.00
ATOM	635	O	LEU	42	-1.665	6.791	8.762	1.00	0.00
ATOM	630	CB	LEU	42	-4.706	7.501	8.013	1.00	0.00
ATOM	631	CG	LEU	42	-5.525	7.269	6.734	1.00	0.00
ATOM	632	CD1	LEU	42	-5.359	5.844	6.235	1.00	0.00
ATOM	633	CD2	LEU	42	-6.995	7.574	6.984	1.00	0.00
ATOM	636	H	LEU	42	-2.612	8.866	5.970	1.00	0.00
ATOM	637	HA	LEU	42	-3.175	8.863	8.685	1.00	0.00
ATOM	638	1HB	LEU	42	-5.306	8.082	8.696	1.00	0.00
ATOM	639	2HB	LEU	42	-4.507	6.540	8.467	1.00	0.00
ATOM	640	HG	LEU	42	-5.172	7.935	5.961	1.00	0.00
ATOM	641	1HD1	LEU	42	-6.095	5.642	5.472	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.493	5.156	7.057	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.368	5.722	5.821	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.322	8.347	6.305	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.124	7.909	8.002	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.581	6.681	6.821	1.00	0.00
ATOM	647	N	HIS	43	-1.955	6.764	6.530	1.00	0.00
ATOM	648	CA	HIS	43	-0.908	5.781	6.268	1.00	0.00
ATOM	655	C	HIS	43	0.439	6.298	6.753	1.00	0.00
ATOM	656	O	HIS	43	1.109	5.663	7.565	1.00	0.00
ATOM	649	CB	HIS	43	-0.816	5.509	4.769	1.00	0.00
ATOM	650	CG	HIS	43	-1.666	4.377	4.265	1.00	0.00
ATOM	651	ND1	HIS	43	-1.308	3.597	3.187	1.00	0.00
ATOM	652	CD2	HIS	43	-2.892	3.938	4.649	1.00	0.00
ATOM	653	CE1	HIS	43	-2.274	2.741	2.923	1.00	0.00
ATOM	654	NE2	HIS	43	-3.250	2.921	3.796	1.00	0.00
ATOM	657	H	HIS	43	-2.459	7.128	5.775	1.00	0.00
ATOM	658	HA	HIS	43	-1.151	4.870	6.792	1.00	0.00
ATOM	659	1HB	HIS	43	0.210	5.297	4.529	1.00	0.00
ATOM	660	2HB	HIS	43	-1.118	6.400	4.239	1.00	0.00
ATOM	661	HD1	HIS	43	-0.453	3.641	2.699	1.00	0.00
ATOM	662	HD2	HIS	43	-3.482	4.315	5.474	1.00	0.00
ATOM	663	HE1	HIS	43	-2.268	2.011	2.126	1.00	0.00
ATOM	664	HE2	HIS	43	-3.952	2.263	3.976	1.00	0.00
ATOM	665	N	GLN	44	0.823	7.469	6.244	1.00	0.00
ATOM	666	CA	GLN	44	2.090	8.098	6.615	1.00	0.00
ATOM	672	C	GLN	44	2.123	8.398	8.103	1.00	0.00
ATOM	673	O	GLN	44	3.188	8.477	8.713	1.00	0.00
ATOM	667	CB	GLN	44	2.298	9.397	5.827	1.00	0.00
ATOM	668	CG	GLN	44	1.621	9.408	4.465	1.00	0.00
ATOM	669	CD	GLN	44	1.395	10.808	3.936	1.00	0.00
ATOM	670	OE1	GLN	44	0.769	11.636	4.593	1.00	0.00
ATOM	671	NE2	GLN	44	1.901	11.078	2.744	1.00	0.00
ATOM	674	H	GLN	44	0.238	7.922	5.603	1.00	0.00
ATOM	675	HA	GLN	44	2.886	7.410	6.379	1.00	0.00
ATOM	676	1HB	GLN	44	3.358	9.548	5.679	1.00	0.00
ATOM	677	2HB	GLN	44	1.905	10.220	6.405	1.00	0.00
ATOM	678	1HG	GLN	44	0.666	8.911	4.551	1.00	0.00
ATOM	679	2HG	GLN	44	2.244	8.871	3.764	1.00	0.00
ATOM	680	1HE2	GLN	44	2.389	10.369	2.273	1.00	0.00
ATOM	681	2HE2	GLN	44	1.767	11.979	2.378	1.00	0.00
ATOM	682	N	ALA	45	0.943	8.552	8.677	1.00	0.00
ATOM	683	CA	ALA	45	0.820	8.842	10.094	1.00	0.00
ATOM	685	C	ALA	45	1.149	7.614	10.932	1.00	0.00
ATOM	686	O	ALA	45	1.948	7.685	11.867	1.00	0.00
ATOM	684	CB	ALA	45	-0.579	9.344	10.408	1.00	0.00
ATOM	687	H	ALA	45	0.134	8.459	8.130	1.00	0.00
ATOM	688	HA	ALA	45	1.521	9.629	10.335	1.00	0.00
ATOM	689	1HB	ALA	45	-1.126	9.483	9.489	1.00	0.00
ATOM	690	2HB	ALA	45	-0.514	10.285	10.935	1.00	0.00
ATOM	691	3HB	ALA	45	-1.091	8.621	11.027	1.00	0.00
ATOM	692	N	MET	46	0.525	6.489	10.598	1.00	0.00



ATOM	693	CA	MET	46	0.753	5.252	11.335	1.00	0.00
ATOM	698	C	MET	46	2.174	4.738	11.145	1.00	0.00
ATOM	699	O	MET	46	2.776	4.204	12.079	1.00	0.00
ATOM	694	CB	MET	46	-0.241	4.184	10.899	1.00	0.00
ATOM	695	CG	MET	46	-0.740	3.334	12.049	1.00	0.00
ATOM	696	SD	MET	46	-2.294	2.519	11.676	1.00	0.00
ATOM	697	CE	MET	46	-3.428	3.679	12.416	1.00	0.00
ATOM	700	H	MET	46	-0.113	6.491	9.841	1.00	0.00
ATOM	701	HA	MET	46	0.601	5.461	12.383	1.00	0.00
ATOM	702	1HB	MET	46	0.235	3.535	10.179	1.00	0.00
ATOM	703	2HB	MET	46	-1.091	4.663	10.435	1.00	0.00
ATOM	704	1HG	MET	46	-0.881	3.969	12.913	1.00	0.00
ATOM	705	2HG	MET	46	-0.003	2.585	12.275	1.00	0.00
ATOM	706	1HE	MET	46	-4.382	3.618	11.915	1.00	0.00
ATOM	707	2HE	MET	46	-3.034	4.680	12.320	1.00	0.00
ATOM	708	3HE	MET	46	-3.554	3.440	13.462	1.00	0.00
ATOM	709	N	ARG	47	2.699	4.894	9.938	1.00	0.00
ATOM	710	CA	ARG	47	4.047	4.436	9.620	1.00	0.00
ATOM	718	C	ARG	47	5.099	5.131	10.483	1.00	0.00
ATOM	719	O	ARG	47	6.044	4.496	10.952	1.00	0.00
ATOM	711	CB	ARG	47	4.349	4.669	8.140	1.00	0.00
ATOM	712	CG	ARG	47	5.323	3.663	7.551	1.00	0.00
ATOM	713	CD	ARG	47	5.749	4.056	6.146	1.00	0.00
ATOM	714	NE	ARG	47	6.552	5.278	6.141	1.00	0.00
ATOM	715	CZ	ARG	47	7.167	5.767	5.066	1.00	0.00
ATOM	716	NH1	ARG	47	7.061	5.153	3.894	1.00	0.00
ATOM	717	NH2	ARG	47	7.888	6.875	5.168	1.00	0.00
ATOM	720	H	ARG	47	2.160	5.322	9.235	1.00	0.00
ATOM	721	HA	ARG	47	4.086	3.375	9.818	1.00	0.00
ATOM	722	1HB	ARG	47	4.769	5.657	8.021	1.00	0.00
ATOM	723	2HB	ARG	47	3.425	4.612	7.582	1.00	0.00
ATOM	724	1HG	ARG	47	4.848	2.693	7.516	1.00	0.00
ATOM	725	2HG	ARG	47	6.199	3.613	8.181	1.00	0.00
ATOM	726	1HD	ARG	47	4.864	4.215	5.547	1.00	0.00
ATOM	727	2HD	ARG	47	6.332	3.252	5.721	1.00	0.00
ATOM	728	HE	ARG	47	6.643	5.765	7.000	1.00	0.00
ATOM	729	1HH1	ARG	47	6.520	4.317	3.808	1.00	0.00
ATOM	730	2HH1	ARG	47	7.529	5.530	3.081	1.00	0.00
ATOM	731	1HH2	ARG	47	7.967	7.343	6.054	1.00	0.00
ATOM	732	2HH2	ARG	47	8.369	7.246	4.366	1.00	0.00
ATOM	733	N	ALA	48	4.923	6.430	10.702	1.00	0.00
ATOM	734	CA	ALA	48	5.861	7.193	11.514	1.00	0.00
ATOM	736	C	ALA	48	5.634	6.900	12.984	1.00	0.00
ATOM	737	O	ALA	48	6.559	6.943	13.797	1.00	0.00
ATOM	735	CB	ALA	48	5.722	8.678	11.237	1.00	0.00
ATOM	738	H	ALA	48	4.142	6.881	10.321	1.00	0.00
ATOM	739	HA	ALA	48	6.863	6.888	11.245	1.00	0.00
ATOM	740	1HB	ALA	48	5.572	9.206	12.167	1.00	0.00
ATOM	741	2HB	ALA	48	4.876	8.845	10.586	1.00	0.00
ATOM	742	3HB	ALA	48	6.620	9.040	10.759	1.00	0.00
ATOM	743	N	ALA	49	4.394	6.578	13.313	1.00	0.00
ATOM	744	CA	ALA	49	4.034	6.245	14.671	1.00	0.00
ATOM	746	C	ALA	49	4.714	4.957	15.076	1.00	0.00
ATOM	747	O	ALA	49	5.524	4.944	16.004	1.00	0.00
ATOM	745	CB	ALA	49	2.527	6.118	14.801	1.00	0.00
ATOM	748	H	ALA	49	3.707	6.546	12.611	1.00	0.00
ATOM	749	HA	ALA	49	4.374	7.041	15.318	1.00	0.00
ATOM	750	1HB	ALA	49	2.291	5.349	15.520	1.00	0.00
ATOM	751	2HB	ALA	49	2.104	5.858	13.842	1.00	0.00
ATOM	752	3HB	ALA	49	2.113	7.060	15.134	1.00	0.00
ATOM	753	N	GLY	50	4.374	3.885	14.364	1.00	0.00
ATOM	754	CA	GLY	50	4.950	2.582	14.630	1.00	0.00
ATOM	755	C	GLY	50	6.458	2.627	14.750	1.00	0.00
ATOM	756	O	GLY	50	7.011	2.055	15.670	1.00	0.00
ATOM	757	H	GLY	50	3.709	3.984	13.644	1.00	0.00
ATOM	758	1HA	GLY	50	4.683	1.912	13.827	1.00	0.00
ATOM	759	2HA	GLY	50	4.539	2.201	15.553	1.00	0.00
ATOM	760	N	ASP	51	7.113	3.317	13.824	1.00	0.00
ATOM	761	CA	ASP	51	8.573	3.448	13.824	1.00	0.00
ATOM	766	C	ASP	51	9.102	3.970	15.164	1.00	0.00
ATOM	767	O	ASP	51	9.978	3.357	15.780	1.00	0.00
ATOM	762	CB	ASP	51	9.000	4.394	12.700	1.00	0.00
ATOM	763	CG	ASP	51	10.458	4.239	12.320	1.00	0.00



ATOM	764	OD1	ASP	51	11.312	4.914	12.933	1.00	0.00
ATOM	765	OD2	ASP	51	10.751	3.466	11.385	1.00	0.00
ATOM	768	H	ASP	51	6.604	3.755	13.115	1.00	0.00
ATOM	769	HA	ASP	51	8.997	2.472	13.642	1.00	0.00
ATOM	770	1HB	ASP	51	8.839	5.414	13.018	1.00	0.00
ATOM	771	2HB	ASP	51	8.400	4.197	11.825	1.00	0.00
ATOM	772	N	GLU	52	8.570	5.102	15.611	1.00	0.00
ATOM	773	CA	GLU	52	9.001	5.700	16.872	1.00	0.00
ATOM	779	C	GLU	52	8.640	4.809	18.061	1.00	0.00
ATOM	780	O	GLU	52	9.463	4.574	18.949	1.00	0.00
ATOM	774	CB	GLU	52	8.372	7.087	17.032	1.00	0.00
ATOM	775	CG	GLU	52	8.778	7.809	18.307	1.00	0.00
ATOM	776	CD	GLU	52	7.605	8.486	18.985	1.00	0.00
ATOM	777	OE1	GLU	52	6.653	7.778	19.375	1.00	0.00
ATOM	778	OE2	GLU	52	7.622	9.726	19.118	1.00	0.00
ATOM	781	H	GLU	52	7.872	5.549	15.080	1.00	0.00
ATOM	782	HA	GLU	52	10.076	5.803	16.835	1.00	0.00
ATOM	783	1HB	GLU	52	7.297	6.982	17.030	1.00	0.00
ATOM	784	2HB	GLU	52	8.664	7.698	16.191	1.00	0.00
ATOM	785	1HG	GLU	52	9.516	8.558	18.062	1.00	0.00
ATOM	786	2HG	GLU	52	9.206	7.092	18.990	1.00	0.00
ATOM	787	N	PHE	53	7.412	4.309	18.076	1.00	0.00
ATOM	788	CA	PHE	53	6.957	3.451	19.161	1.00	0.00
ATOM	796	C	PHE	53	7.729	2.143	19.190	1.00	0.00
ATOM	797	O	PHE	53	8.056	1.645	20.254	1.00	0.00
ATOM	789	CB	PHE	53	5.469	3.163	19.033	1.00	0.00
ATOM	790	CG	PHE	53	4.724	3.274	20.330	1.00	0.00
ATOM	791	CD1	PHE	53	4.456	4.514	20.885	1.00	0.00
ATOM	792	CD2	PHE	53	4.291	2.138	20.990	1.00	0.00
ATOM	793	CE1	PHE	53	3.767	4.618	22.076	1.00	0.00
ATOM	794	CE2	PHE	53	3.602	2.235	22.183	1.00	0.00
ATOM	795	CZ	PHE	53	3.339	3.477	22.726	1.00	0.00
ATOM	798	H	PHE	53	6.796	4.524	17.340	1.00	0.00
ATOM	799	HA	PHE	53	7.131	3.975	20.089	1.00	0.00
ATOM	800	1HB	PHE	53	5.334	2.161	18.656	1.00	0.00
ATOM	801	2HB	PHE	53	5.033	3.866	18.339	1.00	0.00
ATOM	802	HD1	PHE	53	4.789	5.406	20.376	1.00	0.00
ATOM	803	HD2	PHE	53	4.497	1.166	20.566	1.00	0.00
ATOM	804	HE1	PHE	53	3.564	5.590	22.500	1.00	0.00
ATOM	805	HE2	PHE	53	3.269	1.342	22.689	1.00	0.00
ATOM	806	HZ	PHE	53	2.801	3.556	23.659	1.00	0.00
ATOM	807	N	GLU	54	8.024	1.604	18.019	1.00	0.00
ATOM	808	CA	GLU	54	8.769	0.357	17.902	1.00	0.00
ATOM	814	C	GLU	54	10.149	0.513	18.535	1.00	0.00
ATOM	815	O	GLU	54	10.672	-0.404	19.166	1.00	0.00
ATOM	809	CB	GLU	54	8.884	-0.034	16.423	1.00	0.00
ATOM	810	CG	GLU	54	9.810	-1.206	16.159	1.00	0.00
ATOM	811	CD	GLU	54	9.389	-2.009	14.949	1.00	0.00
ATOM	812	OE1	GLU	54	8.228	-2.461	14.903	1.00	0.00
ATOM	813	OE2	GLU	54	10.213	-2.184	14.026	1.00	0.00
ATOM	816	H	GLU	54	7.734	2.060	17.195	1.00	0.00
ATOM	817	HA	GLU	54	8.225	-0.410	18.431	1.00	0.00
ATOM	818	1HB	GLU	54	9.241	0.823	15.860	1.00	0.00
ATOM	819	2HB	GLU	54	7.901	-0.297	16.060	1.00	0.00
ATOM	820	1HG	GLU	54	9.807	-1.855	17.024	1.00	0.00
ATOM	821	2HG	GLU	54	10.808	-0.831	15.994	1.00	0.00
ATOM	822	N	THR	55	10.718	1.697	18.372	1.00	0.00
ATOM	823	CA	THR	55	12.025	2.006	18.926	1.00	0.00
ATOM	827	C	THR	55	11.922	2.430	20.403	1.00	0.00
ATOM	828	O	THR	55	12.925	2.514	21.113	1.00	0.00
ATOM	824	CB	THR	55	12.702	3.122	18.099	1.00	0.00
ATOM	825	OG1	THR	55	12.505	2.871	16.699	1.00	0.00
ATOM	826	CG2	THR	55	14.193	3.200	18.390	1.00	0.00
ATOM	829	H	THR	55	10.238	2.388	17.863	1.00	0.00
ATOM	830	HA	THR	55	12.634	1.118	18.859	1.00	0.00
ATOM	831	HB	THR	55	12.246	4.070	18.355	1.00	0.00
ATOM	832	HG1	THR	55	11.609	3.138	16.440	1.00	0.00
ATOM	833	1HG2	THR	55	14.740	2.719	17.592	1.00	0.00
ATOM	834	2HG2	THR	55	14.403	2.700	19.323	1.00	0.00
ATOM	835	3HG2	THR	55	14.493	4.235	18.459	1.00	0.00
ATOM	836	N	ARG	56	10.704	2.705	20.861	1.00	0.00
ATOM	837	CA	ARG	56	10.491	3.129	22.245	1.00	0.00
ATOM	845	C	ARG	56	9.894	2.010	23.109	1.00	0.00



ATOM	846	O	ARG	56	10.044	2.015	24.333	1.00	0.00
ATOM	838	CB	ARG	56	9.575	4.357	22.282	1.00	0.00
ATOM	839	CG	ARG	56	10.231	5.582	22.897	1.00	0.00
ATOM	840	CD	ARG	56	9.764	6.870	22.231	1.00	0.00
ATOM	841	NE	ARG	56	10.699	7.966	22.464	1.00	0.00
ATOM	842	CZ	ARG	56	10.432	9.243	22.200	1.00	0.00
ATOM	843	NH1	ARG	56	9.284	9.588	21.632	1.00	0.00
ATOM	844	NH2	ARG	56	11.328	10.175	22.490	1.00	0.00
ATOM	847	H	ARG	56	9.935	2.635	20.254	1.00	0.00
ATOM	848	HA	ARG	56	11.451	3.403	22.653	1.00	0.00
ATOM	849	LHB	ARG	56	8.694	4.117	22.861	1.00	0.00
ATOM	850	2HB	ARG	56	9.276	4.602	21.274	1.00	0.00
ATOM	851	LHG	ARG	56	11.301	5.497	22.785	1.00	0.00
ATOM	852	2HG	ARG	56	9.980	5.622	23.946	1.00	0.00
ATOM	853	LHD	ARG	56	8.800	7.142	22.635	1.00	0.00
ATOM	854	2HD	ARG	56	9.674	6.706	21.168	1.00	0.00
ATOM	855	HE	ARG	56	11.579	7.739	22.855	1.00	0.00
ATOM	856	1HH1	ARG	56	8.604	8.894	21.392	1.00	0.00
ATOM	857	2HH1	ARG	56	9.095	10.554	21.432	1.00	0.00
ATOM	858	1HH2	ARG	56	12.208	9.921	22.900	1.00	0.00
ATOM	859	2HH2	ARG	56	11.120	11.151	22.311	1.00	0.00
ATOM	860	N	PHE	57	9.201	1.071	22.483	1.00	0.00
ATOM	861	CA	PHE	57	8.573	-0.033	23.196	1.00	0.00
ATOM	869	C	PHE	57	9.547	-1.191	23.381	1.00	0.00
ATOM	870	O	PHE	57	9.672	-2.061	22.519	1.00	0.00
ATOM	862	CB	PHE	57	7.318	-0.509	22.458	1.00	0.00
ATOM	863	CG	PHE	57	6.091	-0.570	23.327	1.00	0.00
ATOM	864	CD1	PHE	57	6.003	0.192	24.483	1.00	0.00
ATOM	865	CD2	PHE	57	5.026	-1.388	22.988	1.00	0.00
ATOM	866	CE1	PHE	57	4.876	0.137	25.283	1.00	0.00
ATOM	867	CE2	PHE	57	3.897	-1.447	23.784	1.00	0.00
ATOM	868	CZ	PHE	57	3.823	-0.684	24.933	1.00	0.00
ATOM	871	H	PHE	57	9.098	1.123	21.508	1.00	0.00
ATOM	872	HA	PHE	57	8.284	0.332	24.170	1.00	0.00
ATOM	873	LHB	PHE	57	7.495	-1.498	22.061	1.00	0.00
ATOM	874	2HB	PHE	57	7.113	0.168	21.641	1.00	0.00
ATOM	875	HD1	PHE	57	5.082	-1.986	22.091	1.00	0.00
ATOM	876	HD2	PHE	57	6.826	0.835	24.758	1.00	0.00
ATOM	877	HE1	PHE	57	3.074	-2.089	23.507	1.00	0.00
ATOM	878	HE2	PHE	57	4.821	0.734	26.180	1.00	0.00
ATOM	879	HZ	PHE	57	2.942	-0.729	25.556	1.00	0.00
ATOM	880	N	ARG	58	10.239	-1.186	24.509	1.00	0.00
ATOM	881	CA	ARG	58	11.213	-2.227	24.823	1.00	0.00
ATOM	889	C	ARG	58	10.556	-3.608	24.881	1.00	0.00
ATOM	890	O	ARG	58	11.183	-4.616	24.555	1.00	0.00
ATOM	882	CB	ARG	58	11.913	-1.920	26.148	1.00	0.00
ATOM	883	CG	ARG	58	13.376	-1.532	25.987	1.00	0.00
ATOM	884	CD	ARG	58	14.038	-1.280	27.331	1.00	0.00
ATOM	885	NE	ARG	58	14.449	0.115	27.490	1.00	0.00
ATOM	886	CZ	ARG	58	14.632	0.710	28.671	1.00	0.00
ATOM	887	NH1	ARG	58	14.421	0.041	29.799	1.00	0.00
ATOM	888	NH2	ARG	58	15.014	1.981	28.722	1.00	0.00
ATOM	891	H	ARG	58	10.095	-0.455	25.144	1.00	0.00
ATOM	892	HA	ARG	58	11.950	-2.232	24.034	1.00	0.00
ATOM	893	LHB	ARG	58	11.863	-2.796	26.780	1.00	0.00
ATOM	894	2HB	ARG	58	11.398	-1.106	26.635	1.00	0.00
ATOM	895	LHG	ARG	58	13.435	-0.632	25.392	1.00	0.00
ATOM	896	2HG	ARG	58	13.897	-2.332	25.483	1.00	0.00
ATOM	897	LHD	ARG	58	14.909	-1.914	27.412	1.00	0.00
ATOM	898	2HD	ARG	58	13.339	-1.530	28.116	1.00	0.00
ATOM	899	HE	ARG	58	14.602	0.633	26.670	1.00	0.00
ATOM	900	1HH1	ARG	58	14.123	-0.921	29.772	1.00	0.00
ATOM	901	2HH1	ARG	58	14.554	0.494	30.689	1.00	0.00
ATOM	902	1HH2	ARG	58	15.164	2.501	27.877	1.00	0.00
ATOM	903	2HH2	ARG	58	15.170	2.428	29.613	1.00	0.00
ATOM	904	N	ARG	59	9.292	-3.652	25.286	1.00	0.00
ATOM	905	CA	ARG	59	8.564	-4.913	25.368	1.00	0.00
ATOM	913	C	ARG	59	7.346	-4.886	24.455	1.00	0.00
ATOM	914	O	ARG	59	6.224	-4.661	24.902	1.00	0.00
ATOM	906	CB	ARG	59	8.135	-5.210	26.807	1.00	0.00
ATOM	907	CG	ARG	59	7.695	-6.653	27.016	1.00	0.00
ATOM	908	CD	ARG	59	7.089	-6.861	28.391	1.00	0.00
ATOM	909	NE	ARG	59	8.114	-7.054	29.414	1.00	0.00



ATOM	910	CZ	ARG	59	7.861	-7.138	30.714	1.00	0.00
ATOM	911	NH1	ARG	59	6.607	-7.092	31.155	1.00	0.00
ATOM	912	NH2	ARG	59	8.862	-7.286	31.569	1.00	0.00
ATOM	915	H	ARG	59	8.834	-2.821	25.523	1.00	0.00
ATOM	916	HA	ARG	59	9.226	-5.697	25.033	1.00	0.00
ATOM	917	1HB	ARG	59	7.309	-4.563	27.068	1.00	0.00
ATOM	918	2HB	ARG	59	8.964	-5.008	27.468	1.00	0.00
ATOM	919	1HG	ARG	59	8.555	-7.299	26.910	1.00	0.00
ATOM	920	2HG	ARG	59	6.958	-6.907	26.268	1.00	0.00
ATOM	921	1HD	ARG	59	6.452	-7.734	28.362	1.00	0.00
ATOM	922	2HD	ARG	59	6.498	-5.993	28.646	1.00	0.00
ATOM	923	HE	ARG	59	9.054	-7.118	29.108	1.00	0.00
ATOM	924	1HH1	ARG	59	5.850	-6.994	30.504	1.00	0.00
ATOM	925	2HH1	ARG	59	6.414	-7.161	32.135	1.00	0.00
ATOM	926	1HH2	ARG	59	9.807	-7.338	31.228	1.00	0.00
ATOM	927	2HH2	ARG	59	8.687	-7.340	32.560	1.00	0.00
ATOM	928	N	THR	60	7.579	-5.096	23.170	1.00	0.00
ATOM	929	CA	THR	60	6.500	-5.085	22.195	1.00	0.00
ATOM	933	C	THR	60	6.401	-6.421	21.454	1.00	0.00
ATOM	934	O	THR	60	5.469	-6.643	20.682	1.00	0.00
ATOM	930	CB	THR	60	6.682	-3.934	21.178	1.00	0.00
ATOM	931	OG1	THR	60	5.487	-3.762	20.408	1.00	0.00
ATOM	932	CG2	THR	60	7.859	-4.194	20.246	1.00	0.00
ATOM	935	H	THR	60	8.496	-5.249	22.867	1.00	0.00
ATOM	936	HA	THR	60	5.576	-4.916	22.730	1.00	0.00
ATOM	937	HB	THR	60	6.875	-3.023	21.726	1.00	0.00
ATOM	938	HG1	THR	60	5.106	-4.625	20.209	1.00	0.00
ATOM	939	1HG2	THR	60	8.081	-5.251	20.231	1.00	0.00
ATOM	940	2HG2	THR	60	8.723	-3.650	20.597	1.00	0.00
ATOM	941	3HG2	THR	60	7.608	-3.865	19.248	1.00	0.00
ATOM	942	N	PHE	61	7.369	-7.306	21.677	1.00	0.00
ATOM	943	CA	PHE	61	7.374	-8.602	21.002	1.00	0.00
ATOM	951	C	PHE	61	7.345	-9.768	21.988	1.00	0.00
ATOM	952	O	PHE	61	6.830	-10.838	21.675	1.00	0.00
ATOM	944	CB	PHE	61	8.598	-8.717	20.095	1.00	0.00
ATOM	945	CG	PHE	61	8.271	-8.637	18.630	1.00	0.00
ATOM	946	CD1	PHE	61	7.979	-7.418	18.037	1.00	0.00
ATOM	947	CD2	PHE	61	8.255	-9.780	17.846	1.00	0.00
ATOM	948	CE1	PHE	61	7.677	-7.343	16.690	1.00	0.00
ATOM	949	CE2	PHE	61	7.955	-9.710	16.499	1.00	0.00
ATOM	950	CZ	PHE	61	7.665	-8.489	15.921	1.00	0.00
ATOM	953	H	PHE	61	8.094	-7.080	22.289	1.00	0.00
ATOM	954	HA	PHE	61	6.487	-8.650	20.388	1.00	0.00
ATOM	955	1HB	PHE	61	9.083	-9.665	20.276	1.00	0.00
ATOM	956	2HB	PHE	61	9.286	-7.917	20.326	1.00	0.00
ATOM	957	HD1	PHE	61	7.989	-6.520	18.638	1.00	0.00
ATOM	958	HD2	PHE	61	8.482	-10.734	18.298	1.00	0.00
ATOM	959	HE1	PHE	61	7.451	-6.387	16.241	1.00	0.00
ATOM	960	HE2	PHE	61	7.945	-10.608	15.900	1.00	0.00
ATOM	961	HZ	PHE	61	7.429	-8.432	14.868	1.00	0.00
ATOM	962	N	SER	62	7.905	-9.568	23.171	1.00	0.00
ATOM	963	CA	SER	62	7.953	-10.611	24.191	1.00	0.00
ATOM	966	C	SER	62	6.553	-11.074	24.593	1.00	0.00
ATOM	967	O	SER	62	6.346	-12.245	24.918	1.00	0.00
ATOM	964	CB	SER	62	8.712	-10.078	25.402	1.00	0.00
ATOM	965	OG	SER	62	9.246	-8.790	25.120	1.00	0.00
ATOM	968	H	SER	62	8.313	-8.700	23.371	1.00	0.00
ATOM	969	HA	SER	62	8.487	-11.455	23.784	1.00	0.00
ATOM	970	1HB	SER	62	9.524	-10.748	25.641	1.00	0.00
ATOM	971	2HB	SER	62	8.041	-10.004	26.246	1.00	0.00
ATOM	972	HG	SER	62	10.209	-8.830	25.136	1.00	0.00
ATOM	973	N	ASP	63	5.597	-10.157	24.563	1.00	0.00
ATOM	974	CA	ASP	63	4.219	-10.475	24.927	1.00	0.00
ATOM	979	C	ASP	63	3.562	-11.335	23.863	1.00	0.00
ATOM	980	O	ASP	63	2.587	-12.036	24.133	1.00	0.00
ATOM	975	CB	ASP	63	3.412	-9.190	25.149	1.00	0.00
ATOM	976	CG	ASP	63	3.615	-8.603	26.535	1.00	0.00
ATOM	977	OD1	ASP	63	4.768	-8.600	27.017	1.00	0.00
ATOM	978	OD2	ASP	63	2.623	-8.148	27.144	1.00	0.00
ATOM	981	H	ASP	63	5.821	-9.242	24.296	1.00	0.00
ATOM	982	HA	ASP	63	4.244	-11.044	25.841	1.00	0.00
ATOM	983	1HB	ASP	63	2.363	-9.407	25.019	1.00	0.00
ATOM	984	2HB	ASP	63	3.714	-8.453	24.420	1.00	0.00



ATOM	985	N	LEU	64	4.114	-11.306	22.661	1.00	0.00
ATOM	986	CA	LEU	64	3.593	-12.114	21.567	1.00	0.00
ATOM	991	C	LEU	64	3.918	-13.571	21.840	1.00	0.00
ATOM	992	O	LEU	64	3.093	-14.462	21.639	1.00	0.00
ATOM	987	CB	LEU	64	4.213	-11.696	20.231	1.00	0.00
ATOM	988	CG	LEU	64	3.599	-10.472	19.537	1.00	0.00
ATOM	989	CD1	LEU	64	2.758	-9.634	20.492	1.00	0.00
ATOM	990	CD2	LEU	64	4.698	-9.628	18.925	1.00	0.00
ATOM	993	H	LEU	64	4.905	-10.748	22.509	1.00	0.00
ATOM	994	HA	LEU	64	2.522	-11.985	21.526	1.00	0.00
ATOM	995	1HB	LEU	64	4.140	-12.534	19.553	1.00	0.00
ATOM	996	2HB	LEU	64	5.261	-11.491	20.400	1.00	0.00
ATOM	997	HG	LEU	64	2.955	-10.809	18.737	1.00	0.00
ATOM	998	1HD1	LEU	64	2.888	-8.587	20.260	1.00	0.00
ATOM	999	2HD1	LEU	64	3.076	-9.820	21.508	1.00	0.00
ATOM	1000	3HD1	LEU	64	1.718	-9.901	20.385	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.602	-9.739	19.505	1.00	0.00
ATOM	1002	2HD2	LEU	64	4.396	-8.591	18.922	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.878	-9.953	17.910	1.00	0.00
ATOM	1004	N	ALA	65	5.129	-13.793	22.329	1.00	0.00
ATOM	1005	CA	ALA	65	5.589	-15.130	22.656	1.00	0.00
ATOM	1007	C	ALA	65	4.928	-15.609	23.933	1.00	0.00
ATOM	1008	O	ALA	65	4.498	-16.753	24.023	1.00	0.00
ATOM	1006	CB	ALA	65	7.104	-15.159	22.787	1.00	0.00
ATOM	1009	H	ALA	65	5.724	-13.027	22.486	1.00	0.00
ATOM	1010	HA	ALA	65	5.304	-15.787	21.848	1.00	0.00
ATOM	1011	1HB	ALA	65	7.432	-16.175	22.947	1.00	0.00
ATOM	1012	2HB	ALA	65	7.405	-14.547	23.625	1.00	0.00
ATOM	1013	3HB	ALA	65	7.551	-14.774	21.881	1.00	0.00
ATOM	1014	N	ALA	66	4.838	-14.715	24.913	1.00	0.00
ATOM	1015	CA	ALA	66	4.209	-15.037	26.190	1.00	0.00
ATOM	1017	C	ALA	66	2.778	-15.526	25.981	1.00	0.00
ATOM	1018	O	ALA	66	2.346	-16.503	26.595	1.00	0.00
ATOM	1016	CB	ALA	66	4.228	-13.822	27.099	1.00	0.00
ATOM	1019	H	ALA	66	5.198	-13.808	24.770	1.00	0.00
ATOM	1020	HA	ALA	66	4.783	-15.820	26.663	1.00	0.00
ATOM	1021	1HB	ALA	66	5.250	-13.524	27.279	1.00	0.00
ATOM	1022	2HB	ALA	66	3.752	-14.067	28.037	1.00	0.00
ATOM	1023	3HB	ALA	66	3.695	-13.011	26.625	1.00	0.00
ATOM	1024	N	GLN	67	2.055	-14.842	25.104	1.00	0.00
ATOM	1025	CA	GLN	67	0.669	-15.193	24.796	1.00	0.00
ATOM	1031	C	GLN	67	0.545	-16.574	24.160	1.00	0.00
ATOM	1032	O	GLN	67	-0.258	-17.400	24.591	1.00	0.00
ATOM	1026	CB	GLN	67	0.066	-14.179	23.831	1.00	0.00
ATOM	1027	CG	GLN	67	-0.521	-12.954	24.494	1.00	0.00
ATOM	1028	CD	GLN	67	-0.905	-11.903	23.477	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.064	-11.800	23.081	1.00	0.00
ATOM	1030	NE2	GLN	67	0.070	-11.126	23.041	1.00	0.00
ATOM	1033	H	GLN	67	2.468	-14.070	24.648	1.00	0.00
ATOM	1034	HA	GLN	67	0.106	-15.177	25.717	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.717	-14.663	23.266	1.00	0.00
ATOM	1036	2HB	GLN	67	0.836	-13.852	23.149	1.00	0.00
ATOM	1037	1HG	GLN	67	0.211	-12.535	25.169	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.403	-13.242	25.048	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.976	-11.274	23.396	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.149	-10.435	22.384	1.00	0.00
ATOM	1041	N	LEU	68	1.304	-16.796	23.098	1.00	0.00
ATOM	1042	CA	LEU	68	1.237	-18.054	22.362	1.00	0.00
ATOM	1047	C	LEU	68	2.125	-19.140	22.962	1.00	0.00
ATOM	1048	O	LEU	68	2.274	-20.212	22.379	1.00	0.00
ATOM	1043	CB	LEU	68	1.604	-17.819	20.894	1.00	0.00
ATOM	1044	CG	LEU	68	0.499	-17.188	20.032	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.882	-17.472	20.609	1.00	0.00
ATOM	1046	CD2	LEU	68	0.718	-15.689	19.892	1.00	0.00
ATOM	1049	H	LEU	68	1.899	-16.084	22.774	1.00	0.00
ATOM	1050	HA	LEU	68	0.213	-18.395	22.405	1.00	0.00
ATOM	1051	1HB	LEU	68	1.869	-18.769	20.456	1.00	0.00
ATOM	1052	2HB	LEU	68	2.469	-17.173	20.862	1.00	0.00
ATOM	1053	HG	LEU	68	0.537	-17.622	19.043	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.632	-16.970	20.015	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.930	-17.112	21.626	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.067	-18.537	20.595	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.496	-15.386	18.879	1.00	0.00



ATOM	1058	2HD2	LEU	68	1.747	-15.452	20.120	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.068	-15.164	20.575	1.00	0.00
ATOM	1060	N	HIS	69	2.708	-18.877	24.121	1.00	0.00
ATOM	1061	CA	HIS	69	3.567	-19.861	24.768	1.00	0.00
ATOM	1068	C	HIS	69	2.725	-20.917	25.471	1.00	0.00
ATOM	1069	O	HIS	69	3.177	-22.038	25.706	1.00	0.00
ATOM	1062	CB	HIS	69	4.505	-19.187	25.773	1.00	0.00
ATOM	1063	CG	HIS	69	5.823	-19.881	25.917	1.00	0.00
ATOM	1064	ND1	HIS	69	6.904	-19.627	25.100	1.00	0.00
ATOM	1065	CD2	HIS	69	6.230	-20.828	26.790	1.00	0.00
ATOM	1066	CE1	HIS	69	7.915	-20.394	25.464	1.00	0.00
ATOM	1067	NE2	HIS	69	7.533	-21.131	26.487	1.00	0.00
ATOM	1070	H	HIS	69	2.561	-18.005	24.549	1.00	0.00
ATOM	1071	HA	HIS	69	4.156	-20.340	23.999	1.00	0.00
ATOM	1072	1HB	HIS	69	4.030	-19.169	26.743	1.00	0.00
ATOM	1073	2HB	HIS	69	4.697	-18.175	25.452	1.00	0.00
ATOM	1074	HD1	HIS	69	6.932	-18.977	24.361	1.00	0.00
ATOM	1075	HD2	HIS	69	5.636	-21.269	27.578	1.00	0.00
ATOM	1076	HE1	HIS	69	8.891	-20.411	25.003	1.00	0.00
ATOM	1077	HE2	HIS	69	8.020	-21.923	26.821	1.00	0.00
ATOM	1078	N	VAL	70	1.494	-20.546	25.798	1.00	0.00
ATOM	1079	CA	VAL	70	0.570	-21.456	26.461	1.00	0.00
ATOM	1083	C	VAL	70	-0.268	-22.206	25.431	1.00	0.00
ATOM	1084	O	VAL	70	-0.118	-23.413	25.251	1.00	0.00
ATOM	1080	CB	VAL	70	-0.371	-20.719	27.445	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.103	-21.171	28.870	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.222	-19.207	27.329	1.00	0.00
ATOM	1085	H	VAL	70	1.196	-19.641	25.577	1.00	0.00
ATOM	1086	HA	VAL	70	1.154	-22.172	27.021	1.00	0.00
ATOM	1087	HB	VAL	70	-1.390	-20.979	27.197	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.110	-22.250	28.914	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.869	-20.779	29.524	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.863	-20.805	29.188	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.749	-18.731	28.143	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.636	-18.876	26.389	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.824	-18.944	27.375	1.00	0.00
ATOM	1094	N	THR	71	-1.153	-21.477	24.757	1.00	0.00
ATOM	1095	CA	THR	71	-2.020	-22.057	23.740	1.00	0.00
ATOM	1099	C	THR	71	-2.649	-20.962	22.878	1.00	0.00
ATOM	1100	O	THR	71	-2.990	-19.881	23.378	1.00	0.00
ATOM	1096	CB	THR	71	-3.149	-22.910	24.365	1.00	0.00
ATOM	1097	OG1	THR	71	-3.083	-22.859	25.797	1.00	0.00
ATOM	1098	CG2	THR	71	-3.049	-24.355	23.899	1.00	0.00
ATOM	1101	H	THR	71	-1.223	-20.519	24.945	1.00	0.00
ATOM	1102	HA	THR	71	-1.418	-22.697	23.112	1.00	0.00
ATOM	1103	HB	THR	71	-4.099	-22.510	24.043	1.00	0.00
ATOM	1104	HG1	THR	71	-2.304	-23.343	26.095	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.624	-24.959	24.688	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.418	-24.409	23.025	1.00	0.00
ATOM	1107	3HG2	THR	71	-4.035	-24.723	23.656	1.00	0.00
ATOM	1108	N	PRO	72	-2.807	-21.222	21.569	1.00	0.00
ATOM	1109	CA	PRO	72	-3.394	-20.274	20.626	1.00	0.00
ATOM	1113	C	PRO	72	-4.921	-20.288	20.680	1.00	0.00
ATOM	1114	O	PRO	72	-5.515	-20.989	21.499	1.00	0.00
ATOM	1110	CB	PRO	72	-2.914	-20.774	19.254	1.00	0.00
ATOM	1111	CG	PRO	72	-2.075	-21.987	19.516	1.00	0.00
ATOM	1112	CD	PRO	72	-2.425	-22.463	20.895	1.00	0.00
ATOM	1115	HA	PRO	72	-3.036	-19.270	20.796	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.338	-19.997	18.772	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.771	-21.016	18.642	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.028	-21.724	19.465	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.303	-22.753	18.789	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.568	-22.915	21.371	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.253	-23.157	20.859	1.00	0.00
ATOM	1122	N	GLY	73	-5.553	-19.518	19.799	1.00	0.00
ATOM	1123	CA	GLY	73	-7.006	-19.471	19.759	1.00	0.00
ATOM	1124	C	GLY	73	-7.595	-18.553	20.816	1.00	0.00
ATOM	1125	O	GLY	73	-8.247	-17.559	20.493	1.00	0.00
ATOM	1126	H	GLY	73	-5.030	-18.984	19.161	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.390	-20.469	19.912	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.316	-19.123	18.785	1.00	0.00
ATOM	1129	N	SER	74	-7.360	-18.881	22.080	1.00	0.00
ATOM	1130	CA	SER	74	-7.868	-18.092	23.201	1.00	0.00



ATOM	1133	C	SER	74	-7.082	-16.787	23.385	1.00	0.00
ATOM	1134	O	SER	74	-6.987	-16.253	24.489	1.00	0.00
ATOM	1131	CB	SER	74	-7.802	-18.937	24.473	1.00	0.00
ATOM	1132	OG	SER	74	-7.483	-20.286	24.162	1.00	0.00
ATOM	1135	H	SER	74	-6.828	-19.687	22.274	1.00	0.00
ATOM	1136	HA	SER	74	-8.899	-17.850	22.995	1.00	0.00
ATOM	1137	1HB	SER	74	-8.759	-18.910	24.972	1.00	0.00
ATOM	1138	2HB	SER	74	-7.040	-18.540	25.129	1.00	0.00
ATOM	1139	HG	SER	74	-8.286	-20.757	23.921	1.00	0.00
ATOM	1140	N	ALA	75	-6.529	-16.276	22.295	1.00	0.00
ATOM	1141	CA	ALA	75	-5.763	-15.043	22.331	1.00	0.00
ATOM	1143	C	ALA	75	-6.676	-13.826	22.304	1.00	0.00
ATOM	1144	O	ALA	75	-6.286	-12.743	22.738	1.00	0.00
ATOM	1142	CB	ALA	75	-4.786	-15.001	21.167	1.00	0.00
ATOM	1145	H	ALA	75	-6.648	-16.740	21.439	1.00	0.00
ATOM	1146	HA	ALA	75	-5.193	-15.032	23.244	1.00	0.00
ATOM	1147	1HB	ALA	75	-5.225	-15.493	20.310	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.874	-15.506	21.443	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.568	-13.972	20.917	1.00	0.00
ATOM	1150	N	GLN	76	-7.888	-14.006	21.783	1.00	0.00
ATOM	1151	CA	GLN	76	-8.846	-12.906	21.683	1.00	0.00
ATOM	1157	C	GLN	76	-9.180	-12.321	23.041	1.00	0.00
ATOM	1158	O	GLN	76	-9.276	-11.108	23.179	1.00	0.00
ATOM	1152	CB	GLN	76	-10.125	-13.338	20.953	1.00	0.00
ATOM	1153	CG	GLN	76	-10.657	-14.697	21.358	1.00	0.00
ATOM	1154	CD	GLN	76	-11.960	-15.047	20.661	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.263	-16.219	20.443	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.740	-14.035	20.312	1.00	0.00
ATOM	1159	H	GLN	76	-8.137	-14.890	21.444	1.00	0.00
ATOM	1160	HA	GLN	76	-8.371	-12.132	21.098	1.00	0.00
ATOM	1161	1HB	GLN	76	-9.924	-13.358	19.892	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.895	-12.607	21.147	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.823	-14.694	22.416	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.921	-15.447	21.112	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.441	-13.124	20.517	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.586	-14.237	19.860	1.00	0.00
ATOM	1167	N	GLN	77	-9.343	-13.178	24.038	1.00	0.00
ATOM	1168	CA	GLN	77	-9.661	-12.723	25.385	1.00	0.00
ATOM	1174	C	GLN	77	-8.543	-11.853	25.938	1.00	0.00
ATOM	1175	O	GLN	77	-8.791	-10.753	26.434	1.00	0.00
ATOM	1169	CB	GLN	77	-9.909	-13.916	26.306	1.00	0.00
ATOM	1170	CG	GLN	77	-11.089	-14.772	25.882	1.00	0.00
ATOM	1171	CD	GLN	77	-12.079	-14.997	27.007	1.00	0.00
ATOM	1172	OE1	GLN	77	-11.721	-14.947	28.182	1.00	0.00
ATOM	1173	NE2	GLN	77	-13.331	-15.240	26.653	1.00	0.00
ATOM	1176	H	GLN	77	-9.242	-14.135	23.867	1.00	0.00
ATOM	1177	HA	GLN	77	-10.557	-12.126	25.326	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.095	-13.553	27.307	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.025	-14.537	26.318	1.00	0.00
ATOM	1180	1HG	GLN	77	-10.720	-15.731	25.549	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.599	-14.280	25.068	1.00	0.00
ATOM	1182	1HE2	GLN	77	-13.550	-15.259	25.701	1.00	0.00
ATOM	1183	2HE2	GLN	77	-13.993	-15.402	27.368	1.00	0.00
ATOM	1184	N	ARG	78	-7.313	-12.338	25.829	1.00	0.00
ATOM	1185	CA	ARG	78	-6.154	-11.594	26.303	1.00	0.00
ATOM	1193	C	ARG	78	-6.060	-10.257	25.575	1.00	0.00
ATOM	1194	O	ARG	78	-5.818	-9.217	26.191	1.00	0.00
ATOM	1186	CB	ARG	78	-4.869	-12.407	26.093	1.00	0.00
ATOM	1187	CG	ARG	78	-4.879	-13.762	26.784	1.00	0.00
ATOM	1188	CD	ARG	78	-3.962	-14.757	26.085	1.00	0.00
ATOM	1189	NE	ARG	78	-4.125	-16.117	26.605	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.869	-17.227	25.906	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.423	-17.143	24.656	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.047	-18.421	26.463	1.00	0.00
ATOM	1195	H	ARG	78	-7.182	-13.211	25.410	1.00	0.00
ATOM	1196	HA	ARG	78	-6.291	-11.405	27.358	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.033	-11.839	26.475	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.729	-12.568	25.034	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.889	-14.151	26.777	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.547	-13.639	27.803	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.938	-14.446	26.230	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.191	-14.757	25.029	1.00	0.00
ATOM	1203	HE	ARG	78	-4.450	-16.204	27.539	1.00	0.00



ATOM	1204	1HH1	ARG	78	-3.279	-16.248	24.233	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.222	-17.979	24.133	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.377	-18.494	27.416	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.862	-19.255	25.940	1.00	0.00
ATOM	1208	N	PHE	79	-6.275	-10.296	24.264	1.00	0.00
ATOM	1209	CA	PHE	79	-6.233	-9.096	23.444	1.00	0.00
ATOM	1217	C	PHE	79	-7.307	-8.106	23.884	1.00	0.00
ATOM	1218	O	PHE	79	-7.013	-6.935	24.133	1.00	0.00
ATOM	1210	CB	PHE	79	-6.421	-9.452	21.968	1.00	0.00
ATOM	1211	CG	PHE	79	-5.804	-8.457	21.027	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.427	-8.364	20.900	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.602	-7.615	20.269	1.00	0.00
ATOM	1214	CE1	PHE	79	-3.858	-7.449	20.035	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.038	-6.699	19.403	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.664	-6.615	19.286	1.00	0.00
ATOM	1219	H	PHE	79	-6.477	-11.158	23.839	1.00	0.00
ATOM	1220	HA	PHE	79	-5.263	-8.640	23.572	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.479	-9.505	21.750	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.971	-10.413	21.777	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.795	-9.017	21.485	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.676	-7.680	20.360	1.00	0.00
ATOM	1225	HE1	PHE	79	-2.783	-7.385	19.946	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.672	-6.048	18.819	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.221	-5.898	18.610	1.00	0.00
ATOM	1228	N	THR	80	-8.553	-8.576	23.971	1.00	0.00
ATOM	1229	CA	THR	80	-9.664	-7.716	24.373	1.00	0.00
ATOM	1233	C	THR	80	-9.422	-7.063	25.735	1.00	0.00
ATOM	1234	O	THR	80	-9.837	-5.926	25.956	1.00	0.00
ATOM	1230	CB	THR	80	-11.010	-8.473	24.410	1.00	0.00
ATOM	1231	OG1	THR	80	-10.837	-9.792	24.940	1.00	0.00
ATOM	1232	CG2	THR	80	-11.618	-8.556	23.018	1.00	0.00
ATOM	1235	H	THR	80	-8.731	-9.524	23.741	1.00	0.00
ATOM	1236	HA	THR	80	-9.749	-6.933	23.632	1.00	0.00
ATOM	1237	HB	THR	80	-11.689	-7.929	25.046	1.00	0.00
ATOM	1238	HG1	THR	80	-10.072	-9.811	25.526	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.552	-7.591	22.539	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.654	-8.851	23.094	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.078	-9.287	22.433	1.00	0.00
ATOM	1242	N	GLN	81	-8.739	-7.769	26.639	1.00	0.00
ATOM	1243	CA	GLN	81	-8.447	-7.222	27.964	1.00	0.00
ATOM	1249	C	GLN	81	-7.588	-5.980	27.834	1.00	0.00
ATOM	1250	O	GLN	81	-7.908	-4.923	28.373	1.00	0.00
ATOM	1244	CB	GLN	81	-7.729	-8.254	28.834	1.00	0.00
ATOM	1245	CG	GLN	81	-8.600	-9.437	29.199	1.00	0.00
ATOM	1246	CD	GLN	81	-9.073	-9.394	30.640	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.300	-9.645	31.563	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.342	-9.079	30.847	1.00	0.00
ATOM	1251	H	GLN	81	-8.413	-8.670	26.407	1.00	0.00
ATOM	1252	HA	GLN	81	-9.383	-6.955	28.428	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.405	-7.776	29.747	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.864	-8.620	28.301	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.035	-10.345	29.046	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.458	-9.435	28.549	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.908	-8.893	30.068	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.668	-9.046	31.777	1.00	0.00
ATOM	1259	N	VAL	82	-6.502	-6.124	27.096	1.00	0.00
ATOM	1260	CA	VAL	82	-5.574	-5.021	26.863	1.00	0.00
ATOM	1264	C	VAL	82	-6.250	-3.905	26.072	1.00	0.00
ATOM	1265	O	VAL	82	-5.991	-2.724	26.297	1.00	0.00
ATOM	1261	CB	VAL	82	-4.319	-5.491	26.101	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.298	-4.370	25.997	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.714	-6.710	26.777	1.00	0.00
ATOM	1266	H	VAL	82	-6.322	-7.003	26.690	1.00	0.00
ATOM	1267	HA	VAL	82	-5.264	-4.632	27.825	1.00	0.00
ATOM	1268	HB	VAL	82	-4.610	-5.769	25.099	1.00	0.00
ATOM	1269	1HG1	VAL	82	-2.723	-4.320	26.909	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.809	-3.430	25.840	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.636	-4.562	25.164	1.00	0.00
ATOM	1272	1HG2	VAL	82	-4.500	-7.304	27.217	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.028	-6.391	27.548	1.00	0.00
ATOM	1274	3HG2	VAL	82	-3.183	-7.302	26.045	1.00	0.00
ATOM	1275	N	SER	83	-7.121	-4.291	25.150	1.00	0.00
ATOM	1276	CA	SER	83	-7.836	-3.328	24.328	1.00	0.00



ATOM	1279	C	SER	83	-8.747	-2.451	25.181	1.00	0.00
ATOM	1280	O	SER	83	-8.745	-1.226	25.043	1.00	0.00
ATOM	1277	CB	SER	83	-8.650	-4.049	23.252	1.00	0.00
ATOM	1278	OG	SER	83	-7.836	-4.941	22.510	1.00	0.00
ATOM	1281	H	SER	83	-7.288	-5.250	25.022	1.00	0.00
ATOM	1282	HA	SER	83	-7.103	-2.698	23.846	1.00	0.00
ATOM	1283	1HB	SER	83	-9.075	-3.320	22.576	1.00	0.00
ATOM	1284	2HB	SER	83	-9.444	-4.612	23.721	1.00	0.00
ATOM	1285	HG	SER	83	-7.429	-5.581	23.107	1.00	0.00
ATOM	1286	N	ASP	84	-9.517	-3.074	26.069	1.00	0.00
ATOM	1287	CA	ASP	84	-10.422	-2.325	26.935	1.00	0.00
ATOM	1292	C	ASP	84	-9.633	-1.505	27.942	1.00	0.00
ATOM	1293	O	ASP	84	-10.022	-0.392	28.290	1.00	0.00
ATOM	1288	CB	ASP	84	-11.410	-3.252	27.647	1.00	0.00
ATOM	1289	CG	ASP	84	-12.844	-2.774	27.492	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.379	-2.825	26.359	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.441	-2.330	28.493	1.00	0.00
ATOM	1294	H	ASP	84	-9.475	-4.055	26.144	1.00	0.00
ATOM	1295	HA	ASP	84	-10.977	-1.645	26.306	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.171	-3.284	28.699	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.331	-4.244	27.230	1.00	0.00
ATOM	1298	N	GLU	85	-8.501	-2.044	28.379	1.00	0.00
ATOM	1299	CA	GLU	85	-7.637	-1.345	29.320	1.00	0.00
ATOM	1305	C	GLU	85	-7.053	-0.098	28.663	1.00	0.00
ATOM	1306	O	GLU	85	-6.787	0.903	29.322	1.00	0.00
ATOM	1300	CB	GLU	85	-6.507	-2.264	29.783	1.00	0.00
ATOM	1301	CG	GLU	85	-6.719	-2.851	31.169	1.00	0.00
ATOM	1302	CD	GLU	85	-6.895	-1.789	32.235	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.883	-1.338	32.805	1.00	0.00
ATOM	1304	OE2	GLU	85	-8.054	-1.410	32.513	1.00	0.00
ATOM	1307	H	GLU	85	-8.230	-2.925	28.046	1.00	0.00
ATOM	1308	HA	GLU	85	-8.232	-1.052	30.172	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.584	-1.703	29.792	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.414	-3.080	29.081	1.00	0.00
ATOM	1311	1HG	GLU	85	-5.860	-3.455	31.421	1.00	0.00
ATOM	1312	2HG	GLU	85	-7.603	-3.471	31.150	1.00	0.00
ATOM	1313	N	LEU	86	-6.867	-0.171	27.353	1.00	0.00
ATOM	1314	CA	LEU	86	-6.321	0.938	26.586	1.00	0.00
ATOM	1319	C	LEU	86	-7.392	1.997	26.331	1.00	0.00
ATOM	1320	O	LEU	86	-7.113	3.195	26.345	1.00	0.00
ATOM	1315	CB	LEU	86	-5.758	0.431	25.256	1.00	0.00
ATOM	1316	CG	LEU	86	-4.253	0.636	25.058	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.469	-0.093	26.136	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.825	0.158	23.679	1.00	0.00
ATOM	1321	H	LEU	86	-7.104	-1.002	26.886	1.00	0.00
ATOM	1322	HA	LEU	86	-5.522	1.381	27.162	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.275	0.937	24.453	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.968	-0.627	25.182	1.00	0.00
ATOM	1325	HG	LEU	86	-4.025	1.689	25.134	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.905	-1.067	26.301	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.504	0.476	27.053	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.443	-0.206	25.821	1.00	0.00
ATOM	1329	1HD2	LEU	86	-4.545	0.491	22.944	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.775	-0.920	23.671	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.854	0.566	23.441	1.00	0.00
ATOM	1332	N	PHE	87	-8.619	1.548	26.102	1.00	0.00
ATOM	1333	CA	PHE	87	-9.728	2.460	25.846	1.00	0.00
ATOM	1341	C	PHE	87	-10.361	2.924	27.158	1.00	0.00
ATOM	1342	O	PHE	87	-11.295	3.726	27.157	1.00	0.00
ATOM	1334	CB	PHE	87	-10.780	1.783	24.961	1.00	0.00
ATOM	1335	CG	PHE	87	-11.821	2.727	24.423	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.478	3.708	23.509	1.00	0.00
ATOM	1337	CD2	PHE	87	-13.139	2.639	24.843	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.429	4.583	23.020	1.00	0.00
ATOM	1339	CE2	PHE	87	-14.095	3.512	24.359	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.739	4.486	23.446	1.00	0.00
ATOM	1343	H	PHE	87	-8.784	0.578	26.107	1.00	0.00
ATOM	1344	HA	PHE	87	-9.334	3.321	25.327	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.287	1.021	25.536	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.288	1.320	24.118	1.00	0.00
ATOM	1347	HD1	PHE	87	-13.418	1.878	25.556	1.00	0.00
ATOM	1348	HD2	PHE	87	-10.454	3.787	23.174	1.00	0.00
ATOM	1349	HE1	PHE	87	-15.118	3.431	24.693	1.00	0.00



ATOM	1350	HE2	PHE	87	-12.148	5.344	22.307	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.484	5.170	23.068	1.00	0.00
ATOM	1352	N	GLN	88	-9.848	2.409	28.270	1.00	0.00
ATOM	1353	CA	GLN	88	-10.354	2.753	29.597	1.00	0.00
ATOM	1359	C	GLN	88	-10.386	4.262	29.808	1.00	0.00
ATOM	1360	O	GLN	88	-11.305	4.791	30.438	1.00	0.00
ATOM	1354	CB	GLN	88	-9.496	2.097	30.680	1.00	0.00
ATOM	1355	CG	GLN	88	-10.281	1.186	31.608	1.00	0.00
ATOM	1356	CD	GLN	88	-10.020	1.488	33.070	1.00	0.00
ATOM	1357	OE1	GLN	88	-10.720	2.294	33.685	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.024	0.835	33.642	1.00	0.00
ATOM	1361	H	GLN	88	-9.110	1.767	28.197	1.00	0.00
ATOM	1362	HA	GLN	88	-11.362	2.372	29.673	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.036	2.871	31.275	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.723	1.511	30.205	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.001	0.162	31.410	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.335	1.316	31.411	1.00	0.00
ATOM	1367	1HE2	GLN	88	-8.509	0.189	33.091	1.00	0.00
ATOM	1368	2HE2	GLN	88	-8.829	1.017	34.582	1.00	0.00
ATOM	1369	N	GLY	89	-9.390	4.952	29.274	1.00	0.00
ATOM	1370	CA	GLY	89	-9.339	6.389	29.412	1.00	0.00
ATOM	1371	C	GLY	89	-8.092	6.995	28.805	1.00	0.00
ATOM	1372	O	GLY	89	-7.318	7.650	29.499	1.00	0.00
ATOM	1373	H	GLY	89	-8.687	4.480	28.780	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.371	6.639	30.463	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.204	6.816	28.927	1.00	0.00
ATOM	1376	N	GLY	90	-7.896	6.795	27.507	1.00	0.00
ATOM	1377	CA	GLY	90	-6.730	7.364	26.862	1.00	0.00
ATOM	1378	C	GLY	90	-6.419	6.794	25.485	1.00	0.00
ATOM	1379	O	GLY	90	-5.282	6.391	25.235	1.00	0.00
ATOM	1380	H	GLY	90	-8.546	6.275	26.987	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.876	7.202	27.500	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.882	8.427	26.762	1.00	0.00
ATOM	1383	N	PRO	91	-7.382	6.783	24.540	1.00	0.00
ATOM	1384	CA	PRO	91	-7.141	6.294	23.185	1.00	0.00
ATOM	1388	C	PRO	91	-6.470	7.354	22.318	1.00	0.00
ATOM	1389	O	PRO	91	-6.765	7.488	21.133	1.00	0.00
ATOM	1385	CB	PRO	91	-8.537	5.989	22.643	1.00	0.00
ATOM	1386	CG	PRO	91	-9.512	6.677	23.536	1.00	0.00
ATOM	1387	CD	PRO	91	-8.757	7.277	24.700	1.00	0.00
ATOM	1390	HA	PRO	91	-6.542	5.394	23.186	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.692	4.924	22.636	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.617	6.376	21.637	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.248	5.967	23.886	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.001	7.454	22.979	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.178	6.937	25.635	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.780	8.354	24.649	1.00	0.00
ATOM	1397	N	ASN	92	-5.580	8.117	22.934	1.00	0.00
ATOM	1398	CA	ASN	92	-4.871	9.192	22.253	1.00	0.00
ATOM	1403	C	ASN	92	-3.896	8.660	21.215	1.00	0.00
ATOM	1404	O	ASN	92	-3.554	7.481	21.228	1.00	0.00
ATOM	1399	CB	ASN	92	-4.130	10.059	23.266	1.00	0.00
ATOM	1400	CG	ASN	92	-4.528	11.515	23.162	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.392	12.130	22.107	1.00	0.00
ATOM	1402	ND2	ASN	92	-5.021	12.075	24.257	1.00	0.00
ATOM	1405	H	ASN	92	-5.407	7.955	23.883	1.00	0.00
ATOM	1406	HA	ASN	92	-5.607	9.801	21.751	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.067	9.981	23.089	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.353	9.712	24.263	1.00	0.00
ATOM	1409	1HD2	ASN	92	-5.099	11.527	25.064	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.278	13.020	24.215	1.00	0.00
ATOM	1411	N	TRP	93	-3.452	9.545	20.320	1.00	0.00
ATOM	1412	CA	TRP	93	-2.510	9.181	19.256	1.00	0.00
ATOM	1423	C	TRP	93	-1.263	8.506	19.819	1.00	0.00
ATOM	1424	O	TRP	93	-0.639	7.690	19.145	1.00	0.00
ATOM	1413	CB	TRP	93	-2.106	10.410	18.436	1.00	0.00
ATOM	1414	CG	TRP	93	-3.220	11.388	18.208	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.305	12.654	18.709	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.405	11.188	17.421	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.463	13.252	18.286	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.156	12.375	17.498	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.909	10.125	16.661	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.377	12.531	16.847	1.00	0.00



ATOM	1421	CZ3	TRP	93	-6.123	10.285	16.013	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.843	11.480	16.113	1.00	0.00
ATOM	1425	H	TRP	93	-3.771	10.473	20.374	1.00	0.00
ATOM	1426	HA	TRP	93	-3.012	8.481	18.604	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.745	10.083	17.470	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.311	10.929	18.952	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.559	13.107	19.345	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.752	14.169	18.510	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.367	9.194	16.573	1.00	0.00
ATOM	1432	HZ2	TRP	93	-6.945	13.447	16.911	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.530	9.481	15.419	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.786	11.560	15.592	1.00	0.00
ATOM	1435	N	GLY	94	-0.918	8.834	21.063	1.00	0.00
ATOM	1436	CA	GLY	94	0.237	8.226	21.691	1.00	0.00
ATOM	1437	C	GLY	94	0.038	6.731	21.859	1.00	0.00
ATOM	1438	O	GLY	94	0.939	5.937	21.602	1.00	0.00
ATOM	1439	H	GLY	94	-1.462	9.476	21.558	1.00	0.00
ATOM	1440	1HA	GLY	94	0.385	8.670	22.664	1.00	0.00
ATOM	1441	2HA	GLY	94	1.109	8.409	21.082	1.00	0.00
ATOM	1442	N	ARG	95	-1.164	6.354	22.274	1.00	0.00
ATOM	1443	CA	ARG	95	-1.513	4.955	22.462	1.00	0.00
ATOM	1451	C	ARG	95	-2.010	4.338	21.159	1.00	0.00
ATOM	1452	O	ARG	95	-1.939	3.124	20.979	1.00	0.00
ATOM	1444	CB	ARG	95	-2.575	4.815	23.552	1.00	0.00
ATOM	1445	CG	ARG	95	-2.344	3.637	24.481	1.00	0.00
ATOM	1446	CD	ARG	95	-1.023	3.758	25.221	1.00	0.00
ATOM	1447	NE	ARG	95	-0.551	2.464	25.713	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.632	2.076	26.985	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.148	2.889	27.898	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.200	0.873	27.346	1.00	0.00
ATOM	1453	H	ARG	95	-1.843	7.039	22.445	1.00	0.00
ATOM	1454	HA	ARG	95	-0.620	4.433	22.764	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.541	4.692	23.084	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.585	5.717	24.146	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.339	2.727	23.898	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.146	3.598	25.204	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.153	4.426	26.061	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.284	4.168	24.548	1.00	0.00
ATOM	1461	HE	ARG	95	-0.164	1.848	25.052	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.482	3.801	27.638	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.209	2.595	28.855	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.191	0.250	26.666	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.274	0.578	28.304	1.00	0.00
ATOM	1466	N	LEU	96	-2.508	5.188	20.263	1.00	0.00
ATOM	1467	CA	LEU	96	-3.023	4.755	18.964	1.00	0.00
ATOM	1472	C	LEU	96	-1.974	3.937	18.220	1.00	0.00
ATOM	1473	O	LEU	96	-2.294	3.000	17.481	1.00	0.00
ATOM	1468	CB	LEU	96	-3.431	5.978	18.133	1.00	0.00
ATOM	1469	CG	LEU	96	-4.497	5.744	17.054	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.840	5.504	15.706	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.408	4.581	17.420	1.00	0.00
ATOM	1474	H	LEU	96	-2.534	6.145	20.483	1.00	0.00
ATOM	1475	HA	LEU	96	-3.892	4.137	19.137	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.546	6.364	17.649	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.802	6.733	18.810	1.00	0.00
ATOM	1478	HG	LEU	96	-5.108	6.632	16.968	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.429	4.505	15.678	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.047	6.222	15.558	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.574	5.613	14.922	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.070	4.369	16.594	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.991	4.841	18.292	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.809	3.708	17.636	1.00	0.00
ATOM	1485	N	VAL	97	-0.715	4.282	18.454	1.00	0.00
ATOM	1486	CA	VAL	97	0.392	3.575	17.841	1.00	0.00
ATOM	1490	C	VAL	97	0.382	2.123	18.293	1.00	0.00
ATOM	1491	O	VAL	97	0.362	1.204	17.479	1.00	0.00
ATOM	1487	CB	VAL	97	1.741	4.188	18.228	1.00	0.00
ATOM	1488	CG1	VAL	97	2.814	3.649	17.313	1.00	0.00
ATOM	1489	CG2	VAL	97	1.692	5.707	18.178	1.00	0.00
ATOM	1492	H	VAL	97	-0.531	5.017	19.081	1.00	0.00
ATOM	1493	HA	VAL	97	0.290	3.624	16.759	1.00	0.00
ATOM	1494	HB	VAL	97	1.975	3.886	19.240	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.358	2.864	17.816	1.00	0.00



ATOM	1496	2HG1	VAL	97	3.493	4.446	17.049	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.358	3.254	16.417	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.038	6.021	17.378	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.685	6.094	18.003	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.318	6.088	19.118	1.00	0.00
ATOM	1501	N	ALA	98	0.378	1.940	19.610	1.00	0.00
ATOM	1502	CA	ALA	98	0.361	0.617	20.212	1.00	0.00
ATOM	1504	C	ALA	98	-0.901	-0.144	19.835	1.00	0.00
ATOM	1505	O	ALA	98	-0.878	-1.364	19.734	1.00	0.00
ATOM	1503	CB	ALA	98	0.478	0.722	21.725	1.00	0.00
ATOM	1506	H	ALA	98	0.378	2.725	20.192	1.00	0.00
ATOM	1507	HA	ALA	98	1.220	0.073	19.847	1.00	0.00
ATOM	1508	LHB	ALA	98	0.637	-0.261	22.142	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.433	1.140	22.128	1.00	0.00
ATOM	1510	3HB	ALA	98	1.310	1.361	21.978	1.00	0.00
ATOM	1511	N	PHE	99	-1.992	0.585	19.623	1.00	0.00
ATOM	1512	CA	PHE	99	-3.262	-0.020	19.249	1.00	0.00
ATOM	1520	C	PHE	99	-3.095	-0.873	17.999	1.00	0.00
ATOM	1521	O	PHE	99	-3.487	-2.037	17.972	1.00	0.00
ATOM	1513	CB	PHE	99	-4.310	1.066	18.973	1.00	0.00
ATOM	1514	CG	PHE	99	-5.179	1.454	20.141	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.117	0.577	20.664	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.078	2.722	20.691	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.935	0.962	21.715	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.886	3.109	21.741	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.817	2.232	22.254	1.00	0.00
ATOM	1522	H	PHE	99	-1.941	1.560	19.715	1.00	0.00
ATOM	1523	HA	PHE	99	-3.587	-0.650	20.059	1.00	0.00
ATOM	1524	LHB	PHE	99	-4.955	0.725	18.182	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.801	1.958	18.642	1.00	0.00
ATOM	1526	HD1	PHE	99	-6.207	-0.415	20.246	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.350	3.412	20.292	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.663	0.271	22.113	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.790	4.101	22.158	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.458	2.542	23.070	1.00	0.00
ATOM	1531	N	PHE	100	-2.513	-0.282	16.965	1.00	0.00
ATOM	1532	CA	PHE	100	-2.307	-0.993	15.710	1.00	0.00
ATOM	1540	C	PHE	100	-1.050	-1.857	15.759	1.00	0.00
ATOM	1541	O	PHE	100	-0.994	-2.920	15.138	1.00	0.00
ATOM	1533	CB	PHE	100	-2.223	-0.005	14.550	1.00	0.00
ATOM	1534	CG	PHE	100	-3.546	0.245	13.891	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.462	1.113	14.459	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.873	-0.386	12.702	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.680	1.345	13.855	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.091	-0.157	12.094	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.996	0.710	12.672	1.00	0.00
ATOM	1542	H	PHE	100	-2.223	0.656	17.044	1.00	0.00
ATOM	1543	HA	PHE	100	-3.159	-1.637	15.557	1.00	0.00
ATOM	1544	LHB	PHE	100	-1.546	-0.391	13.803	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.850	0.939	14.915	1.00	0.00
ATOM	1546	HD1	PHE	100	-4.216	1.611	15.385	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.165	-1.064	12.250	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.387	2.024	14.309	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.335	-0.655	11.168	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.950	0.891	12.199	1.00	0.00
ATOM	1551	N	VAL	101	-0.046	-1.397	16.493	1.00	0.00
ATOM	1552	CA	VAL	101	1.208	-2.128	16.617	1.00	0.00
ATOM	1556	C	VAL	101	0.991	-3.462	17.334	1.00	0.00
ATOM	1557	O	VAL	101	1.655	-4.451	17.019	1.00	0.00
ATOM	1553	CB	VAL	101	2.282	-1.283	17.356	1.00	0.00
ATOM	1554	CG1	VAL	101	3.355	-2.157	17.998	1.00	0.00
ATOM	1555	CG2	VAL	101	2.922	-0.289	16.399	1.00	0.00
ATOM	1558	H	VAL	101	-0.150	-0.540	16.964	1.00	0.00
ATOM	1559	HA	VAL	101	1.569	-2.329	15.618	1.00	0.00
ATOM	1560	HB	VAL	101	1.792	-0.723	18.140	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.215	-3.183	17.691	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.280	-2.089	19.072	1.00	0.00
ATOM	1563	3HG1	VAL	101	4.332	-1.818	17.683	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.616	0.713	16.663	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.607	-0.506	15.389	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.997	-0.366	16.465	1.00	0.00
ATOM	1567	N	PHE	102	0.056	-3.482	18.287	1.00	0.00
ATOM	1568	CA	PHE	102	-0.245	-4.693	19.046	1.00	0.00



ATOM	1576	C	PHE	102	-0.530	-5.880	18.133	1.00	0.00
ATOM	1577	O	PHE	102	0.157	-6.901	18.193	1.00	0.00
ATOM	1569	CB	PHE	102	-1.445	-4.459	19.964	1.00	0.00
ATOM	1570	CG	PHE	102	-1.079	-4.258	21.405	1.00	0.00
ATOM	1571	CD1	PHE	102	-0.156	-5.086	22.024	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.664	-3.243	22.141	1.00	0.00
ATOM	1573	CE1	PHE	102	0.176	-4.904	23.352	1.00	0.00
ATOM	1574	CE2	PHE	102	-1.339	-3.057	23.469	1.00	0.00
ATOM	1575	CZ	PHE	102	-0.417	-3.888	24.076	1.00	0.00
ATOM	1578	H	PHE	102	-0.450	-2.655	18.490	1.00	0.00
ATOM	1579	HA	PHE	102	0.618	-4.925	19.650	1.00	0.00
ATOM	1580	1HB	PHE	102	-2.105	-5.312	19.905	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.975	-3.579	19.632	1.00	0.00
ATOM	1582	HD1	PHE	102	-2.385	-2.594	21.668	1.00	0.00
ATOM	1583	HD2	PHE	102	0.308	-5.880	21.457	1.00	0.00
ATOM	1584	HE1	PHE	102	-1.802	-2.261	24.033	1.00	0.00
ATOM	1585	HE2	PHE	102	0.897	-5.556	23.824	1.00	0.00
ATOM	1586	HZ	PHE	102	-0.166	-3.745	25.116	1.00	0.00
ATOM	1587	N	GLY	103	-1.552	-5.746	17.302	1.00	0.00
ATOM	1588	CA	GLY	103	-1.915	-6.824	16.407	1.00	0.00
ATOM	1589	C	GLY	103	-0.928	-7.020	15.280	1.00	0.00
ATOM	1590	O	GLY	103	-0.657	-8.149	14.891	1.00	0.00
ATOM	1591	H	GLY	103	-2.073	-4.914	17.304	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.885	-6.625	15.990	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.970	-7.740	16.977	1.00	0.00
ATOM	1594	N	ALA	104	-0.388	-5.929	14.751	1.00	0.00
ATOM	1595	CA	ALA	104	0.575	-6.017	13.657	1.00	0.00
ATOM	1597	C	ALA	104	1.788	-6.846	14.068	1.00	0.00
ATOM	1598	O	ALA	104	2.290	-7.654	13.287	1.00	0.00
ATOM	1596	CB	ALA	104	1.002	-4.628	13.205	1.00	0.00
ATOM	1599	H	ALA	104	-0.642	-5.047	15.102	1.00	0.00
ATOM	1600	HA	ALA	104	0.086	-6.513	12.823	1.00	0.00
ATOM	1601	1HB	ALA	104	2.080	-4.579	13.165	1.00	0.00
ATOM	1602	2HB	ALA	104	0.634	-3.893	13.905	1.00	0.00
ATOM	1603	3HB	ALA	104	0.596	-4.428	12.224	1.00	0.00
ATOM	1604	N	ALA	105	2.240	-6.662	15.302	1.00	0.00
ATOM	1605	CA	ALA	105	3.374	-7.417	15.809	1.00	0.00
ATOM	1607	C	ALA	105	2.949	-8.858	16.075	1.00	0.00
ATOM	1608	O	ALA	105	3.666	-9.805	15.742	1.00	0.00
ATOM	1606	CB	ALA	105	3.925	-6.771	17.073	1.00	0.00
ATOM	1609	H	ALA	105	1.787	-6.014	15.894	1.00	0.00
ATOM	1610	HA	ALA	105	4.149	-7.411	15.054	1.00	0.00
ATOM	1611	1HB	ALA	105	4.207	-5.750	16.864	1.00	0.00
ATOM	1612	2HB	ALA	105	4.791	-7.323	17.410	1.00	0.00
ATOM	1613	3HB	ALA	105	3.168	-6.786	17.844	1.00	0.00
ATOM	1614	N	LEU	106	1.762	-9.002	16.661	1.00	0.00
ATOM	1615	CA	LEU	106	1.190	-10.308	16.976	1.00	0.00
ATOM	1620	C	LEU	106	1.080	-11.164	15.717	1.00	0.00
ATOM	1621	O	LEU	106	1.544	-12.301	15.671	1.00	0.00
ATOM	1616	CB	LEU	106	-0.199	-10.112	17.602	1.00	0.00
ATOM	1617	CG	LEU	106	-0.456	-10.880	18.900	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.828	-9.915	20.015	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.556	-11.912	18.703	1.00	0.00
ATOM	1622	H	LEU	106	1.244	-8.196	16.881	1.00	0.00
ATOM	1623	HA	LEU	106	1.833	-10.799	17.683	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.946	-10.404	16.878	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.323	-9.059	17.808	1.00	0.00
ATOM	1626	HG	LEU	106	0.446	-11.399	19.191	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.820	-10.437	20.959	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.814	-9.516	19.831	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.111	-9.107	20.044	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.912	-11.869	17.685	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.373	-11.699	19.379	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.166	-12.898	18.908	1.00	0.00
ATOM	1633	N	CYS	107	0.466	-10.581	14.707	1.00	0.00
ATOM	1634	CA	CYS	107	0.260	-11.219	13.421	1.00	0.00
ATOM	1637	C	CYS	107	1.587	-11.588	12.759	1.00	0.00
ATOM	1638	O	CYS	107	1.733	-12.685	12.221	1.00	0.00
ATOM	1635	CB	CYS	107	-0.544	-10.270	12.525	1.00	0.00
ATOM	1636	SG	CYS	107	-2.272	-10.071	13.027	1.00	0.00
ATOM	1639	H	CYS	107	0.135	-9.669	14.832	1.00	0.00
ATOM	1640	HA	CYS	107	-0.312	-12.118	13.579	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.531	-10.634	11.513	1.00	0.00



ATOM	1642	2HB	CYS	107	-0.084	-9.293	12.553	1.00	0.00
ATOM	1643	HG	CYS	107	-3.043	-10.628	12.103	1.00	0.00
ATOM	1644	N	ALA	108	2.550	-10.670	12.805	1.00	0.00
ATOM	1645	CA	ALA	108	3.865	-10.893	12.208	1.00	0.00
ATOM	1647	C	ALA	108	4.525	-12.162	12.746	1.00	0.00
ATOM	1648	O	ALA	108	5.200	-12.883	12.007	1.00	0.00
ATOM	1646	CB	ALA	108	4.767	-9.689	12.446	1.00	0.00
ATOM	1649	H	ALA	108	2.370	-9.813	13.248	1.00	0.00
ATOM	1650	HA	ALA	108	3.729	-11.000	11.141	1.00	0.00
ATOM	1651	1HB	ALA	108	4.599	-8.954	11.672	1.00	0.00
ATOM	1652	2HB	ALA	108	5.800	-10.003	12.424	1.00	0.00
ATOM	1653	3HB	ALA	108	4.543	-9.255	13.409	1.00	0.00
ATOM	1654	N	GLU	109	4.334	-12.434	14.030	1.00	0.00
ATOM	1655	CA	GLU	109	4.923	-13.614	14.642	1.00	0.00
ATOM	1661	C	GLU	109	4.135	-14.881	14.313	1.00	0.00
ATOM	1662	O	GLU	109	4.696	-15.976	14.304	1.00	0.00
ATOM	1656	CB	GLU	109	5.058	-13.436	16.152	1.00	0.00
ATOM	1657	CG	GLU	109	6.039	-14.417	16.764	1.00	0.00
ATOM	1658	CD	GLU	109	7.012	-13.767	17.725	1.00	0.00
ATOM	1659	OE1	GLU	109	7.967	-13.114	17.252	1.00	0.00
ATOM	1660	OE2	GLU	109	6.856	-13.945	18.951	1.00	0.00
ATOM	1663	H	GLU	109	3.790	-11.824	14.580	1.00	0.00
ATOM	1664	HA	GLU	109	5.913	-13.728	14.227	1.00	0.00
ATOM	1665	1HB	GLU	109	4.094	-13.586	16.612	1.00	0.00
ATOM	1666	2HB	GLU	109	5.401	-12.433	16.359	1.00	0.00
ATOM	1667	1HG	GLU	109	6.603	-14.880	15.966	1.00	0.00
ATOM	1668	2HG	GLU	109	5.485	-15.172	17.291	1.00	0.00
ATOM	1669	N	SER	110	2.850	-14.746	14.022	1.00	0.00
ATOM	1670	CA	SER	110	2.042	-15.913	13.687	1.00	0.00
ATOM	1673	C	SER	110	2.300	-16.353	12.242	1.00	0.00
ATOM	1674	O	SER	110	2.334	-17.544	11.938	1.00	0.00
ATOM	1671	CB	SER	110	0.557	-15.615	13.897	1.00	0.00
ATOM	1672	OG	SER	110	0.300	-15.240	15.239	1.00	0.00
ATOM	1675	H	SER	110	2.434	-13.850	14.030	1.00	0.00
ATOM	1676	HA	SER	110	2.335	-16.715	14.348	1.00	0.00
ATOM	1677	1HB	SER	110	-0.024	-16.494	13.662	1.00	0.00
ATOM	1678	2HB	SER	110	0.261	-14.803	13.247	1.00	0.00
ATOM	1679	HG	SER	110	0.780	-15.828	15.830	1.00	0.00
ATOM	1680	N	VAL	111	2.496	-15.389	11.350	1.00	0.00
ATOM	1681	CA	VAL	111	2.755	-15.700	9.946	1.00	0.00
ATOM	1685	C	VAL	111	4.097	-16.407	9.767	1.00	0.00
ATOM	1686	O	VAL	111	4.257	-17.237	8.870	1.00	0.00
ATOM	1682	CB	VAL	111	2.748	-14.436	9.057	1.00	0.00
ATOM	1683	CG1	VAL	111	2.769	-14.818	7.583	1.00	0.00
ATOM	1684	CG2	VAL	111	1.539	-13.567	9.355	1.00	0.00
ATOM	1687	H	VAL	111	2.468	-14.451	11.642	1.00	0.00
ATOM	1688	HA	VAL	111	1.968	-16.356	9.603	1.00	0.00
ATOM	1689	HB	VAL	111	3.644	-13.865	9.272	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.435	-14.158	7.049	1.00	0.00
ATOM	1691	2HG1	VAL	111	1.773	-14.732	7.174	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.113	-15.838	7.480	1.00	0.00
ATOM	1693	1HG2	VAL	111	0.701	-14.193	9.623	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.288	-12.986	8.479	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.767	-12.901	10.174	1.00	0.00
ATOM	1696	N	ASN	112	5.068	-16.068	10.604	1.00	0.00
ATOM	1697	CA	ASN	112	6.388	-16.673	10.486	1.00	0.00
ATOM	1702	C	ASN	112	6.440	-18.073	11.098	1.00	0.00
ATOM	1703	O	ASN	112	7.193	-18.922	10.616	1.00	0.00
ATOM	1698	CB	ASN	112	7.474	-15.750	11.073	1.00	0.00
ATOM	1699	CG	ASN	112	7.852	-16.064	12.512	1.00	0.00
ATOM	1700	OD1	ASN	112	8.628	-16.978	12.785	1.00	0.00
ATOM	1701	ND2	ASN	112	7.324	-15.278	13.435	1.00	0.00
ATOM	1704	H	ASN	112	4.900	-15.393	11.298	1.00	0.00
ATOM	1705	HA	ASN	112	6.580	-16.777	9.427	1.00	0.00
ATOM	1706	1HB	ASN	112	7.122	-14.729	11.030	1.00	0.00
ATOM	1707	2HB	ASN	112	8.364	-15.837	10.470	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.732	-14.552	13.144	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.533	-15.460	14.373	1.00	0.00
ATOM	1710	N	LYS	113	5.648	-18.339	12.136	1.00	0.00
ATOM	1711	CA	LYS	113	5.666	-19.664	12.747	1.00	0.00
ATOM	1717	C	LYS	113	4.393	-19.983	13.529	1.00	0.00
ATOM	1718	O	LYS	113	4.134	-19.392	14.577	1.00	0.00
ATOM	1712	CB	LYS	113	6.878	-19.803	13.673	1.00	0.00



ATOM	1713	CG	LYS	113	7.694	-21.062	13.422	1.00	0.00
ATOM	1714	CD	LYS	113	8.828	-21.204	14.426	1.00	0.00
ATOM	1715	CE	LYS	113	10.134	-20.659	13.871	1.00	0.00
ATOM	1716	NZ	LYS	113	10.942	-19.984	14.921	1.00	0.00
ATOM	1719	H	LYS	113	5.048	-17.646	12.490	1.00	0.00
ATOM	1720	HA	LYS	113	5.762	-20.384	11.950	1.00	0.00
ATOM	1721	1HB	LYS	113	6.534	-19.820	14.697	1.00	0.00
ATOM	1722	2HB	LYS	113	7.522	-18.948	13.533	1.00	0.00
ATOM	1723	1HG	LYS	113	8.112	-21.016	12.426	1.00	0.00
ATOM	1724	2HG	LYS	113	7.046	-21.923	13.503	1.00	0.00
ATOM	1725	1HD	LYS	113	8.956	-22.251	14.662	1.00	0.00
ATOM	1726	2HD	LYS	113	8.573	-20.659	15.322	1.00	0.00
ATOM	1727	1HE	LYS	113	9.910	-19.951	13.087	1.00	0.00
ATOM	1728	2HE	LYS	113	10.705	-21.479	13.462	1.00	0.00
ATOM	1729	1HZ	LYS	113	11.958	-20.047	14.691	1.00	0.00
ATOM	1730	2HZ	LYS	113	10.777	-20.436	15.848	1.00	0.00
ATOM	1731	3HZ	LYS	113	10.672	-18.979	14.991	1.00	0.00
ATOM	1732	N	GLU	114	3.652	-20.972	13.018	1.00	0.00
ATOM	1733	CA	GLU	114	2.423	-21.485	13.641	1.00	0.00
ATOM	1739	C	GLU	114	1.271	-20.473	13.693	1.00	0.00
ATOM	1740	O	GLU	114	1.474	-19.284	13.916	1.00	0.00
ATOM	1734	CB	GLU	114	2.724	-22.009	15.049	1.00	0.00
ATOM	1735	CG	GLU	114	3.889	-22.985	15.087	1.00	0.00
ATOM	1736	CD	GLU	114	3.949	-23.782	16.373	1.00	0.00
ATOM	1737	OE1	GLU	114	2.987	-24.525	16.656	1.00	0.00
ATOM	1738	OE2	GLU	114	4.964	-23.688	17.092	1.00	0.00
ATOM	1741	H	GLU	114	3.970	-21.412	12.198	1.00	0.00
ATOM	1742	HA	GLU	114	2.097	-22.321	13.043	1.00	0.00
ATOM	1743	1HB	GLU	114	1.849	-22.512	15.431	1.00	0.00
ATOM	1744	2HB	GLU	114	2.959	-21.173	15.691	1.00	0.00
ATOM	1745	1HG	GLU	114	4.807	-22.429	14.981	1.00	0.00
ATOM	1746	2HG	GLU	114	3.791	-23.672	14.260	1.00	0.00
ATOM	1747	N	MET	115	0.053	-21.002	13.507	1.00	0.00
ATOM	1748	CA	MET	115	-1.194	-20.227	13.542	1.00	0.00
ATOM	1753	C	MET	115	-1.414	-19.422	12.264	1.00	0.00
ATOM	1754	O	MET	115	-0.561	-18.650	11.837	1.00	0.00
ATOM	1749	CB	MET	115	-1.247	-19.303	14.763	1.00	0.00
ATOM	1750	CG	MET	115	-1.247	-20.047	16.086	1.00	0.00
ATOM	1751	SD	MET	115	-0.570	-19.064	17.435	1.00	0.00
ATOM	1752	CE	MET	115	0.941	-19.965	17.787	1.00	0.00
ATOM	1755	H	MET	115	-0.008	-21.968	13.348	1.00	0.00
ATOM	1756	HA	MET	115	-2.002	-20.940	13.626	1.00	0.00
ATOM	1757	1HB	MET	115	-2.144	-18.704	14.710	1.00	0.00
ATOM	1758	2HB	MET	115	-0.387	-18.650	14.743	1.00	0.00
ATOM	1759	1HG	MET	115	-0.656	-20.945	15.979	1.00	0.00
ATOM	1760	2HG	MET	115	-2.265	-20.315	16.332	1.00	0.00
ATOM	1761	1HE	MET	115	1.777	-19.463	17.325	1.00	0.00
ATOM	1762	2HE	MET	115	0.860	-20.967	17.391	1.00	0.00
ATOM	1763	3HE	MET	115	1.094	-20.012	18.857	1.00	0.00
ATOM	1764	N	GLU	116	-2.580	-19.611	11.660	1.00	0.00
ATOM	1765	CA	GLU	116	-2.932	-18.906	10.433	1.00	0.00
ATOM	1771	C	GLU	116	-4.205	-18.060	10.616	1.00	0.00
ATOM	1772	O	GLU	116	-4.168	-16.846	10.414	1.00	0.00
ATOM	1766	CB	GLU	116	-3.087	-19.898	9.271	1.00	0.00
ATOM	1767	CG	GLU	116	-3.297	-19.236	7.918	1.00	0.00
ATOM	1768	CD	GLU	116	-4.594	-19.665	7.260	1.00	0.00
ATOM	1769	OE1	GLU	116	-5.277	-20.553	7.808	1.00	0.00
ATOM	1770	OE2	GLU	116	-4.937	-19.110	6.193	1.00	0.00
ATOM	1773	H	GLU	116	-3.224	-20.238	12.050	1.00	0.00
ATOM	1774	HA	GLU	116	-2.114	-18.237	10.205	1.00	0.00
ATOM	1775	1HB	GLU	116	-3.937	-20.534	9.470	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.199	-20.508	9.213	1.00	0.00
ATOM	1777	1HG	GLU	116	-2.475	-19.500	7.270	1.00	0.00
ATOM	1778	2HG	GLU	116	-3.318	-18.164	8.054	1.00	0.00
ATOM	1779	N	PRO	117	-5.354	-18.671	11.001	1.00	0.00
ATOM	1780	CA	PRO	117	-6.615	-17.929	11.187	1.00	0.00
ATOM	1784	C	PRO	117	-6.518	-16.841	12.255	1.00	0.00
ATOM	1785	O	PRO	117	-7.218	-15.830	12.190	1.00	0.00
ATOM	1781	CB	PRO	117	-7.614	-19.009	11.626	1.00	0.00
ATOM	1782	CG	PRO	117	-7.019	-20.294	11.175	1.00	0.00
ATOM	1783	CD	PRO	117	-5.534	-20.110	11.273	1.00	0.00
ATOM	1786	HA	PRO	117	-6.950	-17.487	10.260	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.571	-18.831	11.156	1.00	0.00



ATOM	1788	2HB	PRO	117	-7.726	-18.980	12.701	1.00	0.00
ATOM	1789	1HG	PRO	117	-7.307	-20.497	10.154	1.00	0.00
ATOM	1790	2HG	PRO	117	-7.341	-21.096	11.824	1.00	0.00
ATOM	1791	1HD	PRO	117	-5.029	-20.709	10.530	1.00	0.00
ATOM	1792	2HD	PRO	117	-5.187	-20.362	12.264	1.00	0.00
ATOM	1793	N	LEU	118	-5.652	-17.060	13.237	1.00	0.00
ATOM	1794	CA	LEU	118	-5.469	-16.108	14.328	1.00	0.00
ATOM	1799	C	LEU	118	-5.011	-14.743	13.813	1.00	0.00
ATOM	1800	O	LEU	118	-5.347	-13.716	14.392	1.00	0.00
ATOM	1795	CB	LEU	118	-4.464	-16.654	15.351	1.00	0.00
ATOM	1796	CG	LEU	118	-5.077	-17.403	16.540	1.00	0.00
ATOM	1797	CD1	LEU	118	-6.273	-16.645	17.101	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.479	-18.815	16.133	1.00	0.00
ATOM	1801	H	LEU	118	-5.128	-17.885	13.231	1.00	0.00
ATOM	1802	HA	LEU	118	-6.425	-15.986	14.816	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.890	-15.827	15.736	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.794	-17.328	14.838	1.00	0.00
ATOM	1805	HG	LEU	118	-4.338	-17.480	17.322	1.00	0.00
ATOM	1806	1HD1	LEU	118	-7.132	-16.807	16.467	1.00	0.00
ATOM	1807	2HD1	LEU	118	-6.045	-15.590	17.136	1.00	0.00
ATOM	1808	3HD1	LEU	118	-6.487	-17.001	18.098	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.595	-19.386	15.890	1.00	0.00
ATOM	1810	2HD2	LEU	118	-6.128	-18.772	15.271	1.00	0.00
ATOM	1811	3HD2	LEU	118	-6.000	-19.291	16.952	1.00	0.00
ATOM	1812	N	VAL	119	-4.254	-14.742	12.720	1.00	0.00
ATOM	1813	CA	VAL	119	-3.755	-13.502	12.126	1.00	0.00
ATOM	1817	C	VAL	119	-4.903	-12.596	11.691	1.00	0.00
ATOM	1818	O	VAL	119	-4.941	-11.416	12.047	1.00	0.00
ATOM	1814	CB	VAL	119	-2.845	-13.791	10.911	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.420	-12.501	10.223	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.627	-14.595	11.336	1.00	0.00
ATOM	1819	H	VAL	119	-4.026	-15.596	12.296	1.00	0.00
ATOM	1820	HA	VAL	119	-3.172	-12.983	12.876	1.00	0.00
ATOM	1821	HB	VAL	119	-3.405	-14.380	10.200	1.00	0.00
ATOM	1822	1HG1	VAL	119	-3.227	-12.144	9.601	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.549	-12.688	9.613	1.00	0.00
ATOM	1824	3HG1	VAL	119	-2.185	-11.757	10.970	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.252	-14.213	12.274	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.859	-14.512	10.582	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.904	-15.632	11.455	1.00	0.00
ATOM	1828	N	GLY	120	-5.839	-13.147	10.929	1.00	0.00
ATOM	1829	CA	GLY	120	-6.967	-12.357	10.476	1.00	0.00
ATOM	1830	C	GLY	120	-7.885	-11.994	11.620	1.00	0.00
ATOM	1831	O	GLY	120	-8.514	-10.939	11.609	1.00	0.00
ATOM	1832	H	GLY	120	-5.767	-14.091	10.678	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.521	-12.912	9.741	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.598	-11.449	10.022	1.00	0.00
ATOM	1835	N	GLN	121	-7.945	-12.865	12.623	1.00	0.00
ATOM	1836	CA	GLN	121	-8.773	-12.617	13.790	1.00	0.00
ATOM	1842	C	GLN	121	-8.247	-11.405	14.533	1.00	0.00
ATOM	1843	O	GLN	121	-8.986	-10.472	14.787	1.00	0.00
ATOM	1837	CB	GLN	121	-8.802	-13.832	14.716	1.00	0.00
ATOM	1838	CG	GLN	121	-10.173	-14.476	14.837	1.00	0.00
ATOM	1839	CD	GLN	121	-10.540	-15.303	13.624	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.999	-16.387	13.412	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.462	-14.798	12.820	1.00	0.00
ATOM	1844	H	GLN	121	-7.411	-13.684	12.579	1.00	0.00
ATOM	1845	HA	GLN	121	-9.776	-12.405	13.449	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.485	-13.526	15.702	1.00	0.00
ATOM	1847	2HB	GLN	121	-8.116	-14.569	14.343	1.00	0.00
ATOM	1848	1HG	GLN	121	-10.912	-13.695	14.960	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.181	-15.116	15.706	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.852	-13.915	13.053	1.00	0.00
ATOM	1851	2HE2	GLN	121	-11.731	-15.319	12.033	1.00	0.00
ATOM	1852	N	VAL	122	-6.961	-11.404	14.854	1.00	0.00
ATOM	1853	CA	VAL	122	-6.361	-10.271	15.549	1.00	0.00
ATOM	1857	C	VAL	122	-6.605	-8.988	14.759	1.00	0.00
ATOM	1858	O	VAL	122	-6.876	-7.931	15.332	1.00	0.00
ATOM	1854	CB	VAL	122	-4.841	-10.475	15.760	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.221	-9.266	16.436	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.571	-11.730	16.574	1.00	0.00
ATOM	1859	H	VAL	122	-6.399	-12.173	14.607	1.00	0.00
ATOM	1860	HA	VAL	122	-6.842	-10.176	16.517	1.00	0.00



ATOM	1861	HB	VAL	122	-4.375	-10.599	14.789	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.775	-9.567	17.372	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.987	-8.527	16.622	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.463	-8.844	15.793	1.00	0.00
ATOM	1865	1HG2	VAL	122	-4.967	-12.590	16.054	1.00	0.00
ATOM	1866	2HG2	VAL	122	-5.047	-11.642	17.540	1.00	0.00
ATOM	1867	3HG2	VAL	122	-3.506	-11.849	16.708	1.00	0.00
ATOM	1868	N	GLN	123	-6.545	-9.103	13.439	1.00	0.00
ATOM	1869	CA	GLN	123	-6.787	-7.972	12.558	1.00	0.00
ATOM	1875	C	GLN	123	-8.208	-7.442	12.740	1.00	0.00
ATOM	1876	O	GLN	123	-8.414	-6.232	12.874	1.00	0.00
ATOM	1870	CB	GLN	123	-6.559	-8.377	11.099	1.00	0.00
ATOM	1871	CG	GLN	123	-6.062	-7.236	10.227	1.00	0.00
ATOM	1872	CD	GLN	123	-5.897	-7.638	8.776	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.689	-8.409	8.236	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.864	-7.119	8.134	1.00	0.00
ATOM	1877	H	GLN	123	-6.349	-9.982	13.047	1.00	0.00
ATOM	1878	HA	GLN	123	-6.092	-7.191	12.825	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.491	-8.738	10.686	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.832	-9.177	11.064	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.108	-6.902	10.604	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.773	-6.425	10.280	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.273	-6.513	8.623	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.735	-7.363	7.195	1.00	0.00
ATOM	1885	N	GLU	124	-9.182	-8.343	12.753	1.00	0.00
ATOM	1886	CA	GLU	124	-10.570	-7.939	12.923	1.00	0.00
ATOM	1892	C	GLU	124	-10.849	-7.536	14.367	1.00	0.00
ATOM	1893	O	GLU	124	-11.601	-6.596	14.596	1.00	0.00
ATOM	1887	CB	GLU	124	-11.535	-9.033	12.466	1.00	0.00
ATOM	1888	CG	GLU	124	-11.329	-10.360	13.160	1.00	0.00
ATOM	1889	CD	GLU	124	-12.350	-11.398	12.751	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.005	-11.215	11.701	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.493	-12.413	13.463	1.00	0.00
ATOM	1894	H	GLU	124	-8.964	-9.295	12.648	1.00	0.00
ATOM	1895	HA	GLU	124	-10.722	-7.069	12.301	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.409	-9.184	11.405	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.546	-8.705	12.656	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.388	-10.203	14.228	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.344	-10.727	12.911	1.00	0.00
ATOM	1900	N	TRP	125	-10.223	-8.214	15.343	1.00	0.00
ATOM	1901	CA	TRP	125	-10.420	-7.851	16.749	1.00	0.00
ATOM	1912	C	TRP	125	-10.056	-6.386	16.917	1.00	0.00
ATOM	1913	O	TRP	125	-10.691	-5.640	17.664	1.00	0.00
ATOM	1902	CB	TRP	125	-9.517	-8.655	17.712	1.00	0.00
ATOM	1903	CG	TRP	125	-9.608	-10.156	17.664	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.598	-10.940	17.136	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.628	-11.057	18.193	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.277	-12.270	17.297	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.070	-12.364	17.932	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.410	-10.879	18.856	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.335	-13.488	18.304	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.685	-11.994	19.229	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.145	-13.284	18.946	1.00	0.00
ATOM	1914	H	TRP	125	-9.606	-8.951	15.111	1.00	0.00
ATOM	1915	HA	TRP	125	-11.459	-7.992	17.001	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.735	-8.349	18.721	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.491	-8.400	17.499	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.486	-10.567	16.662	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.822	-13.028	17.001	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.044	-9.892	19.099	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.677	-14.490	18.092	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.741	-11.875	19.739	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.548	-14.128	19.267	1.00	0.00
ATOM	1924	N	MET	126	-9.015	-5.995	16.201	1.00	0.00
ATOM	1925	CA	MET	126	-8.518	-4.631	16.245	1.00	0.00
ATOM	1930	C	MET	126	-9.445	-3.677	15.508	1.00	0.00
ATOM	1931	O	MET	126	-9.908	-2.686	16.075	1.00	0.00
ATOM	1926	CB	MET	126	-7.121	-4.567	15.626	1.00	0.00
ATOM	1927	CG	MET	126	-6.041	-4.086	16.580	1.00	0.00
ATOM	1928	SD	MET	126	-4.382	-4.478	15.990	1.00	0.00
ATOM	1929	CE	MET	126	-4.396	-3.690	14.383	1.00	0.00
ATOM	1932	H	MET	126	-8.562	-6.660	15.623	1.00	0.00
ATOM	1933	HA	MET	126	-8.462	-4.329	17.277	1.00	0.00



ATOM	1934	1HB	MET	126	-7.147	-3.897	14.780	1.00	0.00
ATOM	1935	2HB	MET	126	-6.850	-5.554	15.282	1.00	0.00
ATOM	1936	1HG	MET	126	-6.189	-4.560	17.539	1.00	0.00
ATOM	1937	2HG	MET	126	-6.125	-3.015	16.690	1.00	0.00
ATOM	1938	1HE	MET	126	-5.416	-3.577	14.046	1.00	0.00
ATOM	1939	2HE	MET	126	-3.849	-4.298	13.678	1.00	0.00
ATOM	1940	3HE	MET	126	-3.931	-2.717	14.455	1.00	0.00
ATOM	1941	N	VAL	127	-9.699	-3.964	14.239	1.00	0.00
ATOM	1942	CA	VAL	127	-10.553	-3.108	13.425	1.00	0.00
ATOM	1946	C	VAL	127	-11.972	-3.001	13.992	1.00	0.00
ATOM	1947	O	VAL	127	-12.603	-1.952	13.877	1.00	0.00
ATOM	1943	CB	VAL	127	-10.579	-3.558	11.939	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.606	-4.655	11.690	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.839	-2.365	11.030	1.00	0.00
ATOM	1948	H	VAL	127	-9.288	-4.764	13.836	1.00	0.00
ATOM	1949	HA	VAL	127	-10.115	-2.120	13.452	1.00	0.00
ATOM	1950	HB	VAL	127	-9.604	-3.953	11.692	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.109	-5.532	11.302	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.336	-4.308	10.973	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.102	-4.902	12.617	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.697	-2.566	10.407	1.00	0.00
ATOM	1955	2HG2	VAL	127	-9.974	-2.192	10.408	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.030	-1.489	11.633	1.00	0.00
ATOM	1957	N	GLU	128	-12.469	-4.066	14.621	1.00	0.00
ATOM	1958	CA	GLU	128	-13.806	-4.031	15.196	1.00	0.00
ATOM	1964	C	GLU	128	-13.834	-3.108	16.401	1.00	0.00
ATOM	1965	O	GLU	128	-14.708	-2.252	16.519	1.00	0.00
ATOM	1959	CB	GLU	128	-14.272	-5.435	15.587	1.00	0.00
ATOM	1960	CG	GLU	128	-14.821	-6.242	14.420	1.00	0.00
ATOM	1961	CD	GLU	128	-16.033	-7.065	14.800	1.00	0.00
ATOM	1962	OE1	GLU	128	-17.080	-6.474	15.142	1.00	0.00
ATOM	1963	OE2	GLU	128	-15.949	-8.308	14.758	1.00	0.00
ATOM	1966	H	GLU	128	-11.924	-4.889	14.708	1.00	0.00
ATOM	1967	HA	GLU	128	-14.468	-3.631	14.449	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.049	-5.349	16.335	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.437	-5.975	16.009	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.048	-6.908	14.065	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.102	-5.562	13.629	1.00	0.00
ATOM	1972	N	TYR	129	-12.859	-3.270	17.282	1.00	0.00
ATOM	1973	CA	TYR	129	-12.760	-2.438	18.472	1.00	0.00
ATOM	1982	C	TYR	129	-12.578	-0.977	18.085	1.00	0.00
ATOM	1983	O	TYR	129	-13.083	-0.065	18.748	1.00	0.00
ATOM	1974	CB	TYR	129	-11.571	-2.884	19.324	1.00	0.00
ATOM	1975	CG	TYR	129	-11.679	-2.454	20.768	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.207	-1.212	21.173	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.264	-3.277	21.720	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.317	-0.802	22.483	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.373	-2.874	23.036	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.900	-1.634	23.411	1.00	0.00
ATOM	1981	OH	TYR	129	-12.016	-1.221	24.714	1.00	0.00
ATOM	1984	H	TYR	129	-12.178	-3.962	17.123	1.00	0.00
ATOM	1985	HA	TYR	129	-13.670	-2.546	19.041	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.668	-2.454	18.918	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.494	-3.959	19.294	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.749	-0.561	20.442	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.633	-4.248	21.422	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.944	0.168	22.777	1.00	0.00
ATOM	1991	HE2	TYR	129	-12.831	-3.528	23.765	1.00	0.00
ATOM	1992	HH	TYR	129	-12.459	-1.912	25.235	1.00	0.00
ATOM	1993	N	LEU	130	-11.839	-0.770	17.012	1.00	0.00
ATOM	1994	CA	LEU	130	-11.552	0.568	16.530	1.00	0.00
ATOM	1999	C	LEU	130	-12.776	1.232	15.912	1.00	0.00
ATOM	2000	O	LEU	130	-13.158	2.324	16.317	1.00	0.00
ATOM	1995	CB	LEU	130	-10.418	0.534	15.515	1.00	0.00
ATOM	1996	CG	LEU	130	-9.098	1.118	16.009	1.00	0.00
ATOM	1997	CD1	LEU	130	-8.016	0.049	16.039	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.681	2.289	15.134	1.00	0.00
ATOM	2001	H	LEU	130	-11.462	-1.549	16.536	1.00	0.00
ATOM	2002	HA	LEU	130	-11.232	1.159	17.378	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.732	1.095	14.650	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.252	-0.494	15.221	1.00	0.00
ATOM	2005	HG	LEU	130	-9.231	1.484	17.018	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.475	-0.928	16.006	1.00	0.00



ATOM	2007	2HD1	LEU	130	-7.440	0.145	16.948	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.366	0.171	15.186	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.689	2.612	15.412	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.377	3.104	15.270	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.684	1.982	14.098	1.00	0.00
ATOM	2012	N	GLU	131	-13.380	0.586	14.929	1.00	0.00
ATOM	2013	CA	GLU	131	-14.548	1.148	14.256	1.00	0.00
ATOM	2019	C	GLU	131	-15.711	1.365	15.219	1.00	0.00
ATOM	2020	O	GLU	131	-16.502	2.292	15.051	1.00	0.00
ATOM	2014	CB	GLU	131	-14.985	0.237	13.112	1.00	0.00
ATOM	2015	CG	GLU	131	-14.079	0.316	11.896	1.00	0.00
ATOM	2016	CD	GLU	131	-14.743	-0.193	10.635	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.925	-0.608	10.702	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.088	-0.182	9.571	1.00	0.00
ATOM	2021	H	GLU	131	-13.028	-0.284	14.634	1.00	0.00
ATOM	2022	HA	GLU	131	-14.260	2.103	13.846	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.983	0.513	12.808	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.994	-0.784	13.463	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.194	-0.275	12.084	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.795	1.346	11.743	1.00	0.00
ATOM	2027	N	THR	132	-15.821	0.503	16.214	1.00	0.00
ATOM	2028	CA	THR	132	-16.903	0.599	17.179	1.00	0.00
ATOM	2032	C	THR	132	-16.667	1.681	18.243	1.00	0.00
ATOM	2033	O	THR	132	-17.606	2.379	18.630	1.00	0.00
ATOM	2029	CB	THR	132	-17.137	-0.761	17.870	1.00	0.00
ATOM	2030	OG1	THR	132	-17.268	-1.791	16.881	1.00	0.00
ATOM	2031	CG2	THR	132	-18.384	-0.733	18.740	1.00	0.00
ATOM	2034	H	THR	132	-15.169	-0.225	16.290	1.00	0.00
ATOM	2035	HA	THR	132	-17.801	0.847	16.633	1.00	0.00
ATOM	2036	HB	THR	132	-16.283	-0.981	18.496	1.00	0.00
ATOM	2037	HG1	THR	132	-16.391	-2.061	16.579	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.168	-1.193	19.693	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.179	-1.277	18.250	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.690	0.291	18.895	1.00	0.00
ATOM	2041	N	ARG	133	-15.437	1.814	18.748	1.00	0.00
ATOM	2042	CA	ARG	133	-15.184	2.806	19.799	1.00	0.00
ATOM	2050	C	ARG	133	-14.037	3.775	19.496	1.00	0.00
ATOM	2051	O	ARG	133	-14.146	4.961	19.805	1.00	0.00
ATOM	2043	CB	ARG	133	-14.916	2.114	21.146	1.00	0.00
ATOM	2044	CG	ARG	133	-15.540	0.730	21.290	1.00	0.00
ATOM	2045	CD	ARG	133	-15.915	0.433	22.737	1.00	0.00
ATOM	2046	NE	ARG	133	-16.032	-1.005	22.996	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.512	-1.620	24.062	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.875	-0.928	24.996	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.638	-2.933	24.201	1.00	0.00
ATOM	2052	H	ARG	133	-14.712	1.228	18.440	1.00	0.00
ATOM	2053	HA	ARG	133	-16.083	3.394	19.896	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.302	2.742	21.937	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.849	2.014	21.274	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.829	-0.011	20.951	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.430	0.683	20.680	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.862	0.908	22.955	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.153	0.842	23.383	1.00	0.00
ATOM	2060	HE	ARG	133	-16.520	-1.543	22.334	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.782	0.064	24.919	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.467	-1.405	25.791	1.00	0.00
ATOM	2063	1HH2	ARG	133	-16.134	-3.474	23.505	1.00	0.00
ATOM	2064	2HH2	ARG	133	-15.235	-3.396	24.998	1.00	0.00
ATOM	2065	N	LEU	134	-12.934	3.291	18.932	1.00	0.00
ATOM	2066	CA	LEU	134	-11.792	4.167	18.654	1.00	0.00
ATOM	2071	C	LEU	134	-12.165	5.293	17.696	1.00	0.00
ATOM	2072	O	LEU	134	-11.859	6.457	17.956	1.00	0.00
ATOM	2067	CB	LEU	134	-10.623	3.367	18.090	1.00	0.00
ATOM	2068	CG	LEU	134	-9.423	3.213	19.023	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.688	4.538	19.175	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.867	2.687	20.378	1.00	0.00
ATOM	2073	H	LEU	134	-12.874	2.335	18.715	1.00	0.00
ATOM	2074	HA	LEU	134	-11.488	4.606	19.593	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.286	3.852	17.186	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.981	2.381	17.837	1.00	0.00
ATOM	2077	HG	LEU	134	-8.739	2.497	18.595	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.626	4.354	19.243	1.00	0.00
ATOM	2079	2HD1	LEU	134	-9.025	5.038	20.072	1.00	0.00



ATOM	2080	3HD1	LEU	134	-8.891	5.162	18.318	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.551	1.660	20.486	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.944	2.742	20.451	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.422	3.284	21.160	1.00	0.00
ATOM	2084	N	ALA	135	-12.827	4.942	16.595	1.00	0.00
ATOM	2085	CA	ALA	135	-13.251	5.911	15.598	1.00	0.00
ATOM	2087	C	ALA	135	-14.018	7.062	16.238	1.00	0.00
ATOM	2088	O	ALA	135	-13.882	8.209	15.812	1.00	0.00
ATOM	2086	CB	ALA	135	-14.102	5.231	14.534	1.00	0.00
ATOM	2089	H	ALA	135	-13.033	3.993	16.446	1.00	0.00
ATOM	2090	HA	ALA	135	-12.367	6.304	15.119	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.565	4.388	14.127	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.320	5.935	13.745	1.00	0.00
ATOM	2093	3HB	ALA	135	-15.026	4.890	14.978	1.00	0.00
ATOM	2094	N	ASP	136	-14.805	6.764	17.270	1.00	0.00
ATOM	2095	CA	ASP	136	-15.566	7.801	17.958	1.00	0.00
ATOM	2100	C	ASP	136	-14.628	8.810	18.595	1.00	0.00
ATOM	2101	O	ASP	136	-14.756	10.011	18.357	1.00	0.00
ATOM	2096	CB	ASP	136	-16.484	7.191	19.015	1.00	0.00
ATOM	2097	CG	ASP	136	-17.224	8.246	19.810	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.310	8.675	19.368	1.00	0.00
ATOM	2099	OD2	ASP	136	-16.731	8.642	20.886	1.00	0.00
ATOM	2102	H	ASP	136	-14.866	5.832	17.583	1.00	0.00
ATOM	2103	HA	ASP	136	-16.161	8.317	17.219	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.892	6.599	19.697	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.210	6.557	18.530	1.00	0.00
ATOM	2106	N	TRP	137	-13.667	8.323	19.376	1.00	0.00
ATOM	2107	CA	TRP	137	-12.699	9.199	20.006	1.00	0.00
ATOM	2118	C	TRP	137	-11.955	9.984	18.935	1.00	0.00
ATOM	2119	O	TRP	137	-11.792	11.196	19.036	1.00	0.00
ATOM	2108	CB	TRP	137	-11.704	8.382	20.848	1.00	0.00
ATOM	2109	CG	TRP	137	-10.583	9.203	21.424	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.516	9.722	22.680	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.373	9.595	20.765	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.349	10.428	22.839	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.631	10.363	21.677	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.847	9.376	19.490	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.396	10.909	21.351	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.622	9.917	19.170	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.907	10.677	20.096	1.00	0.00
ATOM	2120	H	TRP	137	-13.595	7.351	19.515	1.00	0.00
ATOM	2121	HA	TRP	137	-13.230	9.889	20.641	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.270	7.611	20.229	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.232	7.921	21.669	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.276	9.589	23.428	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.076	10.902	23.650	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.387	8.789	18.758	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.828	11.491	22.054	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.203	9.755	18.187	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.950	11.082	19.804	1.00	0.00
ATOM	2130	N	ILE	138	-11.500	9.269	17.915	1.00	0.00
ATOM	2131	CA	ILE	138	-10.749	9.869	16.823	1.00	0.00
ATOM	2136	C	ILE	138	-11.525	10.986	16.128	1.00	0.00
ATOM	2137	O	ILE	138	-10.982	12.067	15.897	1.00	0.00
ATOM	2132	CB	ILE	138	-10.324	8.800	15.787	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.192	7.941	16.353	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.890	9.443	14.476	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.272	6.487	15.946	1.00	0.00
ATOM	2138	H	ILE	138	-11.660	8.297	17.907	1.00	0.00
ATOM	2139	HA	ILE	138	-9.849	10.291	17.246	1.00	0.00
ATOM	2140	HB	ILE	138	-11.176	8.168	15.585	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.220	7.987	17.432	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.245	8.329	16.006	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.371	8.713	13.872	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.232	10.274	14.682	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.760	9.797	13.943	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.678	5.891	16.621	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.897	6.374	14.939	1.00	0.00
ATOM	2148	3HD1	ILE	138	-10.301	6.158	15.986	1.00	0.00
ATOM	2149	N	HIS	139	-12.784	10.729	15.787	1.00	0.00
ATOM	2150	CA	HIS	139	-13.598	11.730	15.098	1.00	0.00
ATOM	2157	C	HIS	139	-13.931	12.907	16.007	1.00	0.00
ATOM	2158	O	HIS	139	-14.159	14.017	15.533	1.00	0.00



ATOM	2151	CB	HIS	139	-14.880	11.108	14.530	1.00	0.00
ATOM	2152	CG	HIS	139	-14.660	10.343	13.254	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.632	10.937	12.008	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.459	9.020	13.036	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.427	10.013	11.086	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.316	8.847	11.683	1.00	0.00
ATOM	2159	H	HIS	139	-13.174	9.846	15.999	1.00	0.00
ATOM	2160	HA	HIS	139	-13.009	12.105	14.273	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.594	11.892	14.329	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.295	10.426	15.258	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.743	11.900	11.822	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.419	8.246	13.789	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.357	10.186	10.022	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.202	7.977	11.221	1.00	0.00
ATOM	2167	N	SER	140	-13.957	12.668	17.308	1.00	0.00
ATOM	2168	CA	SER	140	-14.268	13.730	18.258	1.00	0.00
ATOM	2171	C	SER	140	-13.007	14.446	18.762	1.00	0.00
ATOM	2172	O	SER	140	-13.101	15.465	19.449	1.00	0.00
ATOM	2169	CB	SER	140	-15.059	13.163	19.437	1.00	0.00
ATOM	2170	OG	SER	140	-16.066	12.270	18.989	1.00	0.00
ATOM	2173	H	SER	140	-13.775	11.758	17.638	1.00	0.00
ATOM	2174	HA	SER	140	-14.884	14.450	17.743	1.00	0.00
ATOM	2175	1HB	SER	140	-15.526	13.974	19.976	1.00	0.00
ATOM	2176	2HB	SER	140	-14.388	12.632	20.096	1.00	0.00
ATOM	2177	HG	SER	140	-15.684	11.387	18.873	1.00	0.00
ATOM	2178	N	SER	141	-11.835	13.913	18.438	1.00	0.00
ATOM	2179	CA	SER	141	-10.579	14.512	18.887	1.00	0.00
ATOM	2182	C	SER	141	-9.998	15.464	17.852	1.00	0.00
ATOM	2183	O	SER	141	-9.704	16.619	18.152	1.00	0.00
ATOM	2180	CB	SER	141	-9.557	13.426	19.232	1.00	0.00
ATOM	2181	OG	SER	141	-9.073	13.583	20.557	1.00	0.00
ATOM	2184	H	SER	141	-11.813	13.093	17.902	1.00	0.00
ATOM	2185	HA	SER	141	-10.791	15.076	19.771	1.00	0.00
ATOM	2186	1HB	SER	141	-8.724	13.486	18.547	1.00	0.00
ATOM	2187	2HB	SER	141	-10.024	12.457	19.145	1.00	0.00
ATOM	2188	HG	SER	141	-8.361	14.232	20.563	1.00	0.00
ATOM	2189	N	GLY	142	-9.832	14.972	16.644	1.00	0.00
ATOM	2190	CA	GLY	142	-9.276	15.784	15.582	1.00	0.00
ATOM	2191	C	GLY	142	-9.294	15.055	14.266	1.00	0.00
ATOM	2192	O	GLY	142	-9.147	15.653	13.203	1.00	0.00
ATOM	2193	H	GLY	142	-10.086	14.045	16.468	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.257	16.038	15.830	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.852	16.690	15.491	1.00	0.00
ATOM	2196	N	GLY	143	-9.488	13.750	14.345	1.00	0.00
ATOM	2197	CA	GLY	143	-9.535	12.938	13.152	1.00	0.00
ATOM	2198	C	GLY	143	-8.204	12.321	12.815	1.00	0.00
ATOM	2199	O	GLY	143	-7.177	12.691	13.381	1.00	0.00
ATOM	2200	H	GLY	143	-9.609	13.335	15.229	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.851	13.546	12.323	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.248	12.149	13.295	1.00	0.00
ATOM	2203	N	TRP	144	-8.225	11.388	11.878	1.00	0.00
ATOM	2204	CA	TRP	144	-7.016	10.717	11.440	1.00	0.00
ATOM	2215	C	TRP	144	-6.081	11.730	10.804	1.00	0.00
ATOM	2216	O	TRP	144	-4.859	11.604	10.884	1.00	0.00
ATOM	2205	CB	TRP	144	-7.365	9.594	10.459	1.00	0.00
ATOM	2206	CG	TRP	144	-8.001	8.410	11.130	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.338	8.129	11.223	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.320	7.353	11.808	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.526	6.959	11.928	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.300	6.464	12.291	1.00	0.00
ATOM	2211	CE3	TRP	144	-5.975	7.071	12.053	1.00	0.00
ATOM	2212	CZ2	TRP	144	-7.975	5.314	13.004	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.654	5.931	12.760	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.651	5.064	13.229	1.00	0.00
ATOM	2217	H	TRP	144	-9.079	11.154	11.456	1.00	0.00
ATOM	2218	HA	TRP	144	-6.531	10.295	12.309	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.465	9.257	9.969	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.056	9.971	9.720	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.120	8.746	10.809	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.396	6.545	12.133	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.193	7.728	11.698	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.732	4.636	13.372	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.615	5.692	12.958	1.00	0.00



ATOM	2226	HH2	TRP	144	-6.353	4.183	13.780	1.00	0.00
ATOM	2227	N	ALA	145	-6.680	12.756	10.206	1.00	0.00
ATOM	2228	CA	ALA	145	-5.929	13.828	9.574	1.00	0.00
ATOM	2230	C	ALA	145	-5.091	14.580	10.603	1.00	0.00
ATOM	2231	O	ALA	145	-3.987	15.031	10.297	1.00	0.00
ATOM	2229	CB	ALA	145	-6.868	14.783	8.854	1.00	0.00
ATOM	2232	H	ALA	145	-7.658	12.797	10.208	1.00	0.00
ATOM	2233	HA	ALA	145	-5.270	13.385	8.842	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.403	14.250	8.083	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.295	15.582	8.409	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.572	15.196	9.561	1.00	0.00
ATOM	2237	N	GLU	146	-5.604	14.694	11.833	1.00	0.00
ATOM	2238	CA	GLU	146	-4.864	15.377	12.893	1.00	0.00
ATOM	2244	C	GLU	146	-3.587	14.594	13.188	1.00	0.00
ATOM	2245	O	GLU	146	-2.502	15.161	13.322	1.00	0.00
ATOM	2239	CB	GLU	146	-5.734	15.539	14.157	1.00	0.00
ATOM	2240	CG	GLU	146	-4.978	15.389	15.472	1.00	0.00
ATOM	2241	CD	GLU	146	-5.523	16.274	16.581	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.773	17.468	16.321	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.690	15.775	17.719	1.00	0.00
ATOM	2246	H	GLU	146	-6.486	14.296	12.036	1.00	0.00
ATOM	2247	HA	GLU	146	-4.591	16.355	12.524	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.528	14.804	14.136	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.177	16.521	14.141	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.941	15.645	15.305	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.043	14.360	15.791	1.00	0.00
ATOM	2252	N	PHE	147	-3.727	13.278	13.242	1.00	0.00
ATOM	2253	CA	PHE	147	-2.604	12.380	13.482	1.00	0.00
ATOM	2261	C	PHE	147	-1.619	12.426	12.315	1.00	0.00
ATOM	2262	O	PHE	147	-0.408	12.314	12.510	1.00	0.00
ATOM	2254	CB	PHE	147	-3.128	10.955	13.702	1.00	0.00
ATOM	2255	CG	PHE	147	-2.064	9.931	13.986	1.00	0.00
ATOM	2256	CD1	PHE	147	-0.964	10.239	14.773	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.172	8.654	13.464	1.00	0.00
ATOM	2258	CE1	PHE	147	0.008	9.291	15.027	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.204	7.704	13.713	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.113	8.022	14.495	1.00	0.00
ATOM	2263	H	PHE	147	-4.618	12.896	13.096	1.00	0.00
ATOM	2264	HA	PHE	147	-2.089	12.713	14.374	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.662	10.640	12.817	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.809	10.959	14.539	1.00	0.00
ATOM	2267	HD1	PHE	147	-3.025	8.404	12.850	1.00	0.00
ATOM	2268	HD2	PHE	147	-0.869	11.231	15.189	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.300	6.712	13.299	1.00	0.00
ATOM	2270	HE2	PHE	147	0.862	9.542	15.639	1.00	0.00
ATOM	2271	HZ	PHE	147	0.649	7.278	14.688	1.00	0.00
ATOM	2272	N	THR	148	-2.136	12.612	11.103	1.00	0.00
ATOM	2273	CA	THR	148	-1.277	12.693	9.925	1.00	0.00
ATOM	2277	C	THR	148	-0.438	13.966	9.956	1.00	0.00
ATOM	2278	O	THR	148	0.654	14.015	9.401	1.00	0.00
ATOM	2274	CB	THR	148	-2.082	12.650	8.614	1.00	0.00
ATOM	2275	OG1	THR	148	-3.289	11.910	8.799	1.00	0.00
ATOM	2276	CG2	THR	148	-1.266	12.014	7.498	1.00	0.00
ATOM	2279	H	THR	148	-3.110	12.712	11.002	1.00	0.00
ATOM	2280	HA	THR	148	-0.614	11.839	9.942	1.00	0.00
ATOM	2281	HB	THR	148	-2.331	13.659	8.326	1.00	0.00
ATOM	2282	HG1	THR	148	-3.353	11.606	9.712	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.721	12.782	6.968	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.928	11.505	6.814	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.572	11.303	7.922	1.00	0.00
ATOM	2286	N	ALA	149	-0.945	14.992	10.620	1.00	0.00
ATOM	2287	CA	ALA	149	-0.223	16.247	10.735	1.00	0.00
ATOM	2289	C	ALA	149	0.717	16.197	11.930	1.00	0.00
ATOM	2290	O	ALA	149	1.735	16.883	11.966	1.00	0.00
ATOM	2288	CB	ALA	149	-1.191	17.415	10.855	1.00	0.00
ATOM	2291	H	ALA	149	-1.818	14.897	11.057	1.00	0.00
ATOM	2292	HA	ALA	149	0.364	16.377	9.835	1.00	0.00
ATOM	2293	1HB	ALA	149	-0.802	18.135	11.562	1.00	0.00
ATOM	2294	2HB	ALA	149	-2.149	17.055	11.199	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.308	17.886	9.890	1.00	0.00
ATOM	2296	N	LEU	150	0.358	15.375	12.908	1.00	0.00
ATOM	2297	CA	LEU	150	1.149	15.222	14.119	1.00	0.00
ATOM	2302	C	LEU	150	2.514	14.621	13.818	1.00	0.00



ATOM	2303	O	LEU	150	3.540	15.139	14.254	1.00	0.00
ATOM	2298	CB	LEU	150	0.418	14.333	15.127	1.00	0.00
ATOM	2299	CG	LEU	150	-0.069	15.047	16.388	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.586	15.085	16.429	1.00	0.00
ATOM	2301	CD2	LEU	150	0.476	14.362	17.629	1.00	0.00
ATOM	2304	H	LEU	150	-0.472	14.862	12.814	1.00	0.00
ATOM	2306	HA	LEU	150	1.287	16.201	14.552	1.00	0.00
ATOM	2306	1HB	LEU	150	1.087	13.541	15.426	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.432	13.889	14.632	1.00	0.00
ATOM	2308	HG	LEU	150	0.292	16.064	16.381	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.971	15.179	15.423	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.909	15.930	17.018	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.958	14.173	16.872	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.304	14.935	18.023	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.816	13.370	17.373	1.00	0.00
ATOM	2314	3HD2	LEU	150	-0.301	14.294	18.375	1.00	0.00
ATOM	2315	N	TYR	151	2.524	13.514	13.092	1.00	0.00
ATOM	2316	CA	TYR	151	3.782	12.847	12.769	1.00	0.00
ATOM	2325	C	TYR	151	3.868	12.476	11.298	1.00	0.00
ATOM	2326	O	TYR	151	4.460	11.461	10.944	1.00	0.00
ATOM	2317	CB	TYR	151	3.942	11.592	13.622	1.00	0.00
ATOM	2318	CG	TYR	151	4.915	11.748	14.770	1.00	0.00
ATOM	2319	CD1	TYR	151	4.662	12.637	15.806	1.00	0.00
ATOM	2320	CD2	TYR	151	6.080	10.992	14.825	1.00	0.00
ATOM	2321	CE1	TYR	151	5.538	12.771	16.864	1.00	0.00
ATOM	2322	CE2	TYR	151	6.965	11.121	15.879	1.00	0.00
ATOM	2323	CZ	TYR	151	6.690	12.011	16.898	1.00	0.00
ATOM	2324	OH	TYR	151	7.565	12.132	17.955	1.00	0.00
ATOM	2327	H	TYR	151	1.668	13.130	12.783	1.00	0.00
ATOM	2328	HA	TYR	151	4.586	13.528	13.002	1.00	0.00
ATOM	2329	1HB	TYR	151	4.294	10.785	12.996	1.00	0.00
ATOM	2330	2HB	TYR	151	2.982	11.328	14.033	1.00	0.00
ATOM	2331	HD1	TYR	151	3.760	13.231	15.777	1.00	0.00
ATOM	2332	HD2	TYR	151	6.293	10.298	14.024	1.00	0.00
ATOM	2333	HE1	TYR	151	5.316	13.468	17.661	1.00	0.00
ATOM	2334	HE2	TYR	151	7.865	10.525	15.903	1.00	0.00
ATOM	2335	HH	TYR	151	7.617	11.281	18.430	1.00	0.00
ATOM	2336	N	GLY	152	3.280	13.290	10.445	1.00	0.00
ATOM	2337	CA	GLY	152	3.322	13.001	9.028	1.00	0.00
ATOM	2338	C	GLY	152	4.342	13.846	8.296	1.00	0.00
ATOM	2339	O	GLY	152	5.460	14.045	8.774	1.00	0.00
ATOM	2340	H	GLY	152	2.814	14.087	10.773	1.00	0.00
ATOM	2341	1HA	GLY	152	2.345	13.188	8.606	1.00	0.00
ATOM	2342	2HA	GLY	152	3.570	11.960	8.891	1.00	0.00
ATOM	2343	N	ASP	153	3.951	14.342	7.132	1.00	0.00
ATOM	2344	CA	ASP	153	4.829	15.172	6.308	1.00	0.00
ATOM	2349	C	ASP	153	5.071	16.523	6.970	1.00	0.00
ATOM	2350	O	ASP	153	6.183	17.054	6.948	1.00	0.00
ATOM	2345	CB	ASP	153	4.216	15.369	4.920	1.00	0.00
ATOM	2346	CG	ASP	153	5.258	15.440	3.819	1.00	0.00
ATOM	2347	OD1	ASP	153	6.326	14.807	3.954	1.00	0.00
ATOM	2348	OD2	ASP	153	5.003	16.119	2.802	1.00	0.00
ATOM	2351	H	ASP	153	3.048	14.143	6.815	1.00	0.00
ATOM	2352	HA	ASP	153	5.774	14.658	6.206	1.00	0.00
ATOM	2353	1HB	ASP	153	3.649	16.288	4.913	1.00	0.00
ATOM	2354	2HB	ASP	153	3.553	14.543	4.707	1.00	0.00
ATOM	2355	N	GLY	154	4.025	17.068	7.571	1.00	0.00
ATOM	2356	CA	GLY	154	4.138	18.344	8.246	1.00	0.00
ATOM	2357	C	GLY	154	4.221	18.179	9.747	1.00	0.00
ATOM	2358	O	GLY	154	3.443	18.774	10.486	1.00	0.00
ATOM	2359	H	GLY	154	3.168	16.595	7.567	1.00	0.00
ATOM	2360	1HA	GLY	154	3.276	18.948	8.006	1.00	0.00
ATOM	2361	2HA	GLY	154	5.028	18.847	7.897	1.00	0.00
ATOM	2362	N	ALA	155	5.170	17.366	10.192	1.00	0.00
ATOM	2363	CA	ALA	155	5.372	17.109	11.608	1.00	0.00
ATOM	2365	C	ALA	155	6.084	18.284	12.261	1.00	0.00
ATOM	2366	O	ALA	155	7.287	18.236	12.530	1.00	0.00
ATOM	2364	CB	ALA	155	6.159	15.821	11.806	1.00	0.00
ATOM	2367	H	ALA	155	5.754	16.932	9.549	1.00	0.00
ATOM	2368	HA	ALA	155	4.402	16.988	12.067	1.00	0.00
ATOM	2369	1HB	ALA	155	6.514	15.466	10.850	1.00	0.00
ATOM	2370	2HB	ALA	155	5.520	15.074	12.253	1.00	0.00
ATOM	2371	3HB	ALA	155	7.001	16.010	12.455	1.00	0.00



ATOM	2372	N	LEU	156	5.328	19.342	12.484	1.00	0.00
ATOM	2373	CA	LEU	156	5.840	20.556	13.079	1.00	0.00
ATOM	2378	C	LEU	156	6.309	20.320	14.511	1.00	0.00
ATOM	2379	O	LEU	156	5.961	19.317	15.142	1.00	0.00
ATOM	2374	CB	LEU	156	4.766	21.647	13.041	1.00	0.00
ATOM	2375	CG	LEU	156	3.379	21.235	13.545	1.00	0.00
ATOM	2376	CD1	LEU	156	2.818	22.299	14.472	1.00	0.00
ATOM	2377	CD2	LEU	156	2.428	21.002	12.382	1.00	0.00
ATOM	2380	H	LEU	156	4.389	19.309	12.219	1.00	0.00
ATOM	2381	HA	LEU	156	6.683	20.881	12.489	1.00	0.00
ATOM	2382	1HB	LEU	156	4.666	21.987	12.022	1.00	0.00
ATOM	2383	2HB	LEU	156	5.108	22.468	13.641	1.00	0.00
ATOM	2384	HG	LEU	156	3.463	20.314	14.102	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.710	23.227	13.931	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.492	22.443	15.304	1.00	0.00
ATOM	2387	3HD1	LEU	156	1.853	21.982	14.841	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.338	21.909	11.803	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.457	20.721	12.762	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.812	20.212	11.756	1.00	0.00
ATOM	2391	N	GLU	157	7.109	21.253	15.009	1.00	0.00
ATOM	2392	CA	GLU	157	7.665	21.177	16.357	1.00	0.00
ATOM	2398	C	GLU	157	6.579	21.042	17.424	1.00	0.00
ATOM	2399	O	GLU	157	6.785	20.396	18.453	1.00	0.00
ATOM	2393	CB	GLU	157	8.504	22.424	16.636	1.00	0.00
ATOM	2394	CG	GLU	157	9.981	22.130	16.832	1.00	0.00
ATOM	2395	CD	GLU	157	10.242	21.258	18.042	1.00	0.00
ATOM	2396	OE1	GLU	157	9.660	21.528	19.110	1.00	0.00
ATOM	2397	OE2	GLU	157	11.033	20.299	17.926	1.00	0.00
ATOM	2400	H	GLU	157	7.346	22.020	14.442	1.00	0.00
ATOM	2401	HA	GLU	157	8.306	20.310	16.403	1.00	0.00
ATOM	2402	1HB	GLU	157	8.134	22.902	17.531	1.00	0.00
ATOM	2403	2HB	GLU	157	8.402	23.106	15.806	1.00	0.00
ATOM	2404	1HG	GLU	157	10.508	23.064	16.956	1.00	0.00
ATOM	2405	2HG	GLU	157	10.352	21.621	15.954	1.00	0.00
ATOM	2406	N	GLU	158	5.428	21.652	17.180	1.00	0.00
ATOM	2407	CA	GLU	158	4.328	21.599	18.136	1.00	0.00
ATOM	2413	C	GLU	158	3.659	20.233	18.133	1.00	0.00
ATOM	2414	O	GLU	158	3.225	19.746	19.171	1.00	0.00
ATOM	2408	CB	GLU	158	3.295	22.681	17.831	1.00	0.00
ATOM	2409	CG	GLU	158	3.796	24.094	18.063	1.00	0.00
ATOM	2410	CD	GLU	158	2.686	25.119	17.973	1.00	0.00
ATOM	2411	OE1	GLU	158	1.643	24.930	18.633	1.00	0.00
ATOM	2412	OE2	GLU	158	2.842	26.105	17.228	1.00	0.00
ATOM	2415	H	GLU	158	5.317	22.149	16.341	1.00	0.00
ATOM	2416	HA	GLU	158	4.741	21.778	19.117	1.00	0.00
ATOM	2417	1HB	GLU	158	2.433	22.522	18.461	1.00	0.00
ATOM	2418	2HB	GLU	158	2.996	22.594	16.799	1.00	0.00
ATOM	2419	1HG	GLU	158	4.543	24.326	17.317	1.00	0.00
ATOM	2420	2HG	GLU	158	4.240	24.151	19.046	1.00	0.00
ATOM	2421	N	ALA	159	3.585	19.618	16.964	1.00	0.00
ATOM	2422	CA	ALA	159	2.964	18.308	16.831	1.00	0.00
ATOM	2424	C	ALA	159	3.833	17.230	17.470	1.00	0.00
ATOM	2425	O	ALA	159	3.329	16.308	18.115	1.00	0.00
ATOM	2423	CB	ALA	159	2.715	18.000	15.363	1.00	0.00
ATOM	2426	H	ALA	159	3.958	20.053	16.170	1.00	0.00
ATOM	2427	HA	ALA	159	2.010	18.336	17.336	1.00	0.00
ATOM	2428	1HB	ALA	159	3.192	18.750	14.750	1.00	0.00
ATOM	2429	2HB	ALA	159	1.652	18.001	15.171	1.00	0.00
ATOM	2430	3HB	ALA	159	3.123	17.028	15.125	1.00	0.00
ATOM	2431	N	ARG	160	5.140	17.363	17.292	1.00	0.00
ATOM	2432	CA	ARG	160	6.098	16.417	17.848	1.00	0.00
ATOM	2440	C	ARG	160	6.026	16.408	19.371	1.00	0.00
ATOM	2441	O	ARG	160	5.806	15.363	19.989	1.00	0.00
ATOM	2433	CB	ARG	160	7.513	16.781	17.404	1.00	0.00
ATOM	2434	CG	ARG	160	8.008	15.983	16.211	1.00	0.00
ATOM	2435	CD	ARG	160	9.525	15.894	16.196	1.00	0.00
ATOM	2436	NE	ARG	160	10.157	17.205	16.365	1.00	0.00
ATOM	2437	C2	ARG	160	10.863	17.819	15.418	1.00	0.00
ATOM	2438	NH1	ARG	160	11.014	17.259	14.224	1.00	0.00
ATOM	2439	NH2	ARG	160	11.414	19.001	15.661	1.00	0.00
ATOM	2442	H	ARG	160	5.472	18.124	16.773	1.00	0.00
ATOM	2443	HA	ARG	160	5.852	15.434	17.477	1.00	0.00
ATOM	2444	1HB	ARG	160	8.191	16.610	18.228	1.00	0.00



ATOM	2445	2HB	ARG	160	7.537	17.829	17.143	1.00	0.00
ATOM	2446	1HG	ARG	160	7.674	16.466	15.302	1.00	0.00
ATOM	2447	2HG	ARG	160	7.598	14.986	16.263	1.00	0.00
ATOM	2448	1HD	ARG	160	9.839	15.474	15.252	1.00	0.00
ATOM	2449	2HD	ARG	160	9.841	15.246	17.000	1.00	0.00
ATOM	2450	HE	ARG	160	10.052	17.645	17.240	1.00	0.00
ATOM	2451	1HH1	ARG	160	10.593	16.364	14.023	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.549	17.728	13.512	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.298	19.442	16.567	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.948	19.463	14.951	1.00	0.00
ATOM	2455	N	ARG	161	6.209	17.581	19.968	1.00	0.00
ATOM	2456	CA	ARG	161	6.168	17.720	21.419	1.00	0.00
ATOM	2464	C	ARG	161	4.799	17.325	21.970	1.00	0.00
ATOM	2465	O	ARG	161	4.695	16.791	23.074	1.00	0.00
ATOM	2457	CB	ARG	161	6.510	19.155	21.830	1.00	0.00
ATOM	2458	CG	ARG	161	5.458	20.178	21.430	1.00	0.00
ATOM	2459	CD	ARG	161	5.943	21.605	21.639	1.00	0.00
ATOM	2460	NE	ARG	161	7.339	21.776	21.241	1.00	0.00
ATOM	2461	CZ	ARG	161	8.252	22.398	21.982	1.00	0.00
ATOM	2462	NH1	ARG	161	7.908	22.950	23.139	1.00	0.00
ATOM	2463	NH2	ARG	161	9.503	22.480	21.554	1.00	0.00
ATOM	2466	H	ARG	161	6.379	18.375	19.417	1.00	0.00
ATOM	2467	HA	ARG	161	6.909	17.055	21.833	1.00	0.00
ATOM	2468	1HB	ARG	161	7.446	19.434	21.370	1.00	0.00
ATOM	2469	2HB	ARG	161	6.624	19.190	22.903	1.00	0.00
ATOM	2470	1HG	ARG	161	4.573	20.015	22.025	1.00	0.00
ATOM	2471	2HG	ARG	161	5.219	20.041	20.386	1.00	0.00
ATOM	2472	1HD	ARG	161	5.844	21.854	22.685	1.00	0.00
ATOM	2473	2HD	ARG	161	5.327	22.270	21.052	1.00	0.00
ATOM	2474	HE	ARG	161	7.612	21.393	20.372	1.00	0.00
ATOM	2475	1HH1	ARG	161	6.962	22.895	23.460	1.00	0.00
ATOM	2476	2HH1	ARG	161	8.596	23.439	23.694	1.00	0.00
ATOM	2477	1HH2	ARG	161	9.759	22.074	20.658	1.00	0.00
ATOM	2478	2HH2	ARG	161	10.207	22.926	22.119	1.00	0.00
ATOM	2479	N	LEU	162	3.750	17.586	21.193	1.00	0.00
ATOM	2480	CA	LEU	162	2.395	17.260	21.606	1.00	0.00
ATOM	2485	C	LEU	162	2.215	15.757	21.754	1.00	0.00
ATOM	2486	O	LEU	162	1.598	15.296	22.710	1.00	0.00
ATOM	2481	CB	LEU	162	1.374	17.807	20.605	1.00	0.00
ATOM	2482	CG	LEU	162	0.211	18.579	21.227	1.00	0.00
ATOM	2483	CD1	LEU	162	0.067	19.943	20.572	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.080	17.785	21.102	1.00	0.00
ATOM	2487	H	LEU	162	3.895	18.012	20.320	1.00	0.00
ATOM	2488	HA	LEU	162	2.224	17.723	22.567	1.00	0.00
ATOM	2489	1HB	LEU	162	0.969	16.977	20.047	1.00	0.00
ATOM	2490	2HB	LEU	162	1.891	18.463	19.919	1.00	0.00
ATOM	2491	HG	LEU	162	0.411	18.733	22.277	1.00	0.00
ATOM	2492	1HD1	LEU	162	1.034	20.420	20.517	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.604	20.555	21.158	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.333	19.825	19.576	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.408	17.791	20.073	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.838	18.233	21.726	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.907	16.768	21.418	1.00	0.00
ATOM	2498	N	ARG	163	2.751	14.990	20.812	1.00	0.00
ATOM	2499	CA	ARG	163	2.623	13.540	20.875	1.00	0.00
ATOM	2507	C	ARG	163	3.421	12.972	22.041	1.00	0.00
ATOM	2508	O	ARG	163	2.952	12.072	22.739	1.00	0.00
ATOM	2500	CB	ARG	163	3.070	12.880	19.574	1.00	0.00
ATOM	2501	CG	ARG	163	2.634	11.426	19.472	1.00	0.00
ATOM	2502	CD	ARG	163	2.914	10.851	18.099	1.00	0.00
ATOM	2503	NE	ARG	163	3.909	9.780	18.148	1.00	0.00
ATOM	2504	CZ	ARG	163	4.137	8.935	17.148	1.00	0.00
ATOM	2505	NH1	ARG	163	3.463	9.055	16.010	1.00	0.00
ATOM	2506	NH2	ARG	163	5.046	7.979	17.285	1.00	0.00
ATOM	2509	H	ARG	163	3.238	15.408	20.061	1.00	0.00
ATOM	2510	HA	ARG	163	1.579	13.315	21.036	1.00	0.00
ATOM	2511	1HB	ARG	163	4.147	12.918	19.511	1.00	0.00
ATOM	2512	2HB	ARG	163	2.647	13.423	18.741	1.00	0.00
ATOM	2513	1HG	ARG	163	1.574	11.365	19.671	1.00	0.00
ATOM	2514	2HG	ARG	163	3.172	10.848	20.209	1.00	0.00
ATOM	2515	1HD	ARG	163	3.278	11.641	17.460	1.00	0.00
ATOM	2516	2HD	ARG	163	1.993	10.458	17.692	1.00	0.00
ATOM	2517	HE	ARG	163	4.435	9.687	18.977	1.00	0.00



ATOM	2518	1HH1	ARG	163	2.780	9.779	15.905	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.641	8.429	15.250	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.569	7.891	18.154	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.230	7.341	16.537	1.00	0.00
ATOM	2522	N	GLU	164	4.619	13.503	22.248	1.00	0.00
ATOM	2523	CA	GLU	164	5.475	13.045	23.333	1.00	0.00
ATOM	2529	C	GLU	164	4.837	13.359	24.684	1.00	0.00
ATOM	2530	O	GLU	164	4.848	12.532	25.600	1.00	0.00
ATOM	2524	CB	GLU	164	6.867	13.665	23.218	1.00	0.00
ATOM	2525	CG	GLU	164	7.768	12.921	22.242	1.00	0.00
ATOM	2526	CD	GLU	164	9.109	12.564	22.841	1.00	0.00
ATOM	2527	OE1	GLU	164	9.172	12.328	24.067	1.00	0.00
ATOM	2528	OE2	GLU	164	10.100	12.489	22.083	1.00	0.00
ATOM	2531	H	GLU	164	4.936	14.220	21.657	1.00	0.00
ATOM	2532	HA	GLU	164	5.565	11.973	23.244	1.00	0.00
ATOM	2533	1HB	GLU	164	7.338	13.655	24.189	1.00	0.00
ATOM	2534	2HB	GLU	164	6.770	14.688	22.881	1.00	0.00
ATOM	2535	1HG	GLU	164	7.932	13.540	21.373	1.00	0.00
ATOM	2536	2HG	GLU	164	7.277	12.004	21.942	1.00	0.00
ATOM	2537	N	GLY	165	4.248	14.540	24.797	1.00	0.00
ATOM	2538	CA	GLY	165	3.587	14.909	26.030	1.00	0.00
ATOM	2539	C	GLY	165	2.315	14.110	26.223	1.00	0.00
ATOM	2540	O	GLY	165	1.913	13.811	27.347	1.00	0.00
ATOM	2541	H	GLY	165	4.243	15.160	24.031	1.00	0.00
ATOM	2542	1HA	GLY	165	3.341	15.960	26.001	1.00	0.00
ATOM	2543	2HA	GLY	165	4.253	14.723	26.859	1.00	0.00
ATOM	2544	N	ASN	166	1.691	13.762	25.105	1.00	0.00
ATOM	2545	CA	ASN	166	0.456	12.993	25.109	1.00	0.00
ATOM	2550	C	ASN	166	0.682	11.581	25.622	1.00	0.00
ATOM	2551	O	ASN	166	0.021	11.144	26.566	1.00	0.00
ATOM	2546	CB	ASN	166	-0.141	12.925	23.702	1.00	0.00
ATOM	2547	CG	ASN	166	-1.591	13.348	23.675	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.316	13.162	24.648	1.00	0.00
ATOM	2549	ND2	ASN	166	-2.024	13.915	22.558	1.00	0.00
ATOM	2552	H	ASN	166	2.074	14.038	24.246	1.00	0.00
ATOM	2553	HA	ASN	166	-0.245	13.493	25.761	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.076	11.909	23.340	1.00	0.00
ATOM	2555	2HB	ASN	166	0.418	13.571	23.043	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.391	14.034	21.821	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.965	14.185	22.515	1.00	0.00
ATOM	2558	N	TRP	167	1.609	10.857	24.995	1.00	0.00
ATOM	2559	CA	TRP	167	1.888	9.484	25.395	1.00	0.00
ATOM	2570	C	TRP	167	2.394	9.421	26.825	1.00	0.00
ATOM	2571	O	TRP	167	2.169	8.431	27.512	1.00	0.00
ATOM	2560	CB	TRP	167	2.852	8.779	24.415	1.00	0.00
ATOM	2561	CG	TRP	167	4.321	9.064	24.616	1.00	0.00
ATOM	2562	CD1	TRP	167	5.087	9.930	23.893	1.00	0.00
ATOM	2563	CD2	TRP	167	5.211	8.451	25.568	1.00	0.00
ATOM	2564	NE1	TRP	167	6.383	9.919	24.352	1.00	0.00
ATOM	2565	CE2	TRP	167	6.486	9.020	25.376	1.00	0.00
ATOM	2566	CE3	TRP	167	5.052	7.490	26.568	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.588	8.658	26.145	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.147	7.130	27.330	1.00	0.00
ATOM	2569	CH2	TRP	167	7.401	7.713	27.116	1.00	0.00
ATOM	2572	H	TRP	167	2.102	11.253	24.244	1.00	0.00
ATOM	2573	HA	TRP	167	0.938	8.957	25.368	1.00	0.00
ATOM	2574	1HB	TRP	167	2.594	9.075	23.408	1.00	0.00
ATOM	2575	2HB	TRP	167	2.715	7.712	24.506	1.00	0.00
ATOM	2576	HD1	TRP	167	4.712	10.544	23.087	1.00	0.00
ATOM	2577	HE1	TRP	167	7.118	10.468	24.000	1.00	0.00
ATOM	2578	HE3	TRP	167	4.092	7.029	26.749	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.561	9.100	25.994	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.040	6.386	28.106	1.00	0.00
ATOM	2581	HH2	TRP	167	8.229	7.401	27.735	1.00	0.00
ATOM	2582	N	ALA	168	3.053	10.474	27.283	1.00	0.00
ATOM	2583	CA	ALA	168	3.556	10.503	28.647	1.00	0.00
ATOM	2585	C	ALA	168	2.425	10.276	29.645	1.00	0.00
ATOM	2586	O	ALA	168	2.576	9.532	30.616	1.00	0.00
ATOM	2584	CB	ALA	168	4.260	11.821	28.928	1.00	0.00
ATOM	2587	H	ALA	168	3.197	11.251	26.696	1.00	0.00
ATOM	2588	HA	ALA	168	4.276	9.706	28.749	1.00	0.00
ATOM	2589	1HB	ALA	168	3.780	12.315	29.759	1.00	0.00
ATOM	2590	2HB	ALA	168	4.204	12.452	28.053	1.00	0.00



ATOM	2591	3HB	ALA	168	5.294	11.631	29.171	1.00	0.00
ATOM	2592	N	SER	169	1.291	10.919	29.402	1.00	0.00
ATOM	2593	CA	SER	169	0.137	10.788	30.277	1.00	0.00
ATOM	2596	C	SER	169	-0.769	9.605	29.902	1.00	0.00
ATOM	2597	O	SER	169	-1.432	9.040	30.765	1.00	0.00
ATOM	2594	CB	SER	169	-0.663	12.090	30.259	1.00	0.00
ATOM	2595	OG	SER	169	0.133	13.160	29.772	1.00	0.00
ATOM	2598	H	SER	169	1.228	11.497	28.609	1.00	0.00
ATOM	2599	HA	SER	169	0.506	10.627	31.279	1.00	0.00
ATOM	2600	1HB	SER	169	-0.988	12.327	31.262	1.00	0.00
ATOM	2601	2HB	SER	169	-1.524	11.976	29.618	1.00	0.00
ATOM	2602	HG	SER	169	1.057	12.988	29.976	1.00	0.00
ATOM	2603	N	VAL	170	-0.831	9.250	28.617	1.00	0.00
ATOM	2604	CA	VAL	170	-1.717	8.161	28.185	1.00	0.00
ATOM	2608	C	VAL	170	-1.076	6.776	28.278	1.00	0.00
ATOM	2609	O	VAL	170	-1.769	5.779	28.484	1.00	0.00
ATOM	2605	CB	VAL	170	-2.261	8.374	26.753	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.097	9.640	26.683	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.143	8.409	25.726	1.00	0.00
ATOM	2610	H	VAL	170	-0.304	9.745	27.951	1.00	0.00
ATOM	2611	HA	VAL	170	-2.567	8.173	28.852	1.00	0.00
ATOM	2612	HB	VAL	170	-2.899	7.540	26.514	1.00	0.00
ATOM	2613	1HG1	VAL	170	-4.053	9.466	27.154	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.250	9.914	25.650	1.00	0.00
ATOM	2615	3HG1	VAL	170	-2.583	10.440	27.195	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.358	9.168	24.988	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.069	7.446	25.243	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.209	8.638	26.218	1.00	0.00
ATOM	2619	N	ARG	171	0.228	6.694	28.122	1.00	0.00
ATOM	2620	CA	ARG	171	0.901	5.407	28.195	1.00	0.00
ATOM	2628	C	ARG	171	1.039	4.969	29.646	1.00	0.00
ATOM	2629	O	ARG	171	0.949	3.782	29.959	1.00	0.00
ATOM	2621	CB	ARG	171	2.268	5.476	27.514	1.00	0.00
ATOM	2622	CG	ARG	171	2.814	4.123	27.093	1.00	0.00
ATOM	2623	CD	ARG	171	3.865	4.264	26.003	1.00	0.00
ATOM	2624	NE	ARG	171	5.154	3.708	26.415	1.00	0.00
ATOM	2625	CZ	ARG	171	6.267	3.766	25.682	1.00	0.00
ATOM	2626	NH1	ARG	171	6.260	4.371	24.499	1.00	0.00
ATOM	2627	NH2	ARG	171	7.391	3.226	26.144	1.00	0.00
ATOM	2630	H	ARG	171	0.754	7.510	27.954	1.00	0.00
ATOM	2631	HA	ARG	171	0.286	4.686	27.674	1.00	0.00
ATOM	2632	1HB	ARG	171	2.973	5.932	28.193	1.00	0.00
ATOM	2633	2HB	ARG	171	2.181	6.094	26.629	1.00	0.00
ATOM	2634	1HG	ARG	171	2.000	3.519	26.720	1.00	0.00
ATOM	2635	2HG	ARG	171	3.259	3.642	27.951	1.00	0.00
ATOM	2636	1HD	ARG	171	3.991	5.313	25.774	1.00	0.00
ATOM	2637	2HD	ARG	171	3.523	3.743	25.122	1.00	0.00
ATOM	2638	HE	ARG	171	5.191	3.262	27.302	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.417	4.786	24.153	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.096	4.416	23.951	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.401	2.779	27.044	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.232	3.261	25.600	1.00	0.00
ATOM	2643	N	THR	172	1.241	5.940	30.526	1.00	0.00
ATOM	2644	CA	THR	172	1.388	5.666	31.948	1.00	0.00
ATOM	2648	C	THR	172	0.041	5.647	32.671	1.00	0.00
ATOM	2649	O	THR	172	-0.040	5.250	33.832	1.00	0.00
ATOM	2645	CB	THR	172	2.325	6.691	32.605	1.00	0.00
ATOM	2646	OG1	THR	172	3.266	7.174	31.634	1.00	0.00
ATOM	2647	CG2	THR	172	3.074	6.075	33.779	1.00	0.00
ATOM	2650	H	THR	172	1.297	6.867	30.213	1.00	0.00
ATOM	2651	HA	THR	172	1.837	4.692	32.050	1.00	0.00
ATOM	2652	HB	THR	172	1.734	7.516	32.965	1.00	0.00
ATOM	2653	HG1	THR	172	3.083	8.104	31.441	1.00	0.00
ATOM	2654	1HG2	THR	172	3.188	5.014	33.615	1.00	0.00
ATOM	2655	2HG2	THR	172	2.515	6.242	34.688	1.00	0.00
ATOM	2656	3HG2	THR	172	4.048	6.533	33.866	1.00	0.00
ATOM	2657	N	VAL	173	-1.025	6.045	31.992	1.00	0.00
ATOM	2658	CA	VAL	173	-2.337	6.015	32.621	1.00	0.00
ATOM	2662	C	VAL	173	-2.940	4.618	32.464	1.00	0.00
ATOM	2663	O	VAL	173	-3.727	4.168	33.292	1.00	0.00
ATOM	2659	CB	VAL	173	-3.284	7.111	32.067	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.916	6.713	30.747	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.356	7.460	33.088	1.00	0.00



ATOM	2664	H	VAL	173	-0.933	6.346	31.062	1.00	0.00
ATOM	2665	HA	VAL	173	-2.191	6.202	33.677	1.00	0.00
ATOM	2666	HB	VAL	173	-2.694	7.996	31.891	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.167	6.268	30.108	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.325	7.588	30.264	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.705	5.998	30.926	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.771	8.430	32.857	1.00	0.00
ATOM	2671	2HG2	VAL	173	-3.918	7.481	34.075	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.138	6.717	33.057	1.00	0.00
ATOM	2673	N	LEU	174	-2.522	3.924	31.409	1.00	0.00
ATOM	2674	CA	LEU	174	-2.980	2.562	31.148	1.00	0.00
ATOM	2679	C	LEU	174	-1.789	1.607	31.099	1.00	0.00
ATOM	2680	O	LEU	174	-1.694	0.752	30.215	1.00	0.00
ATOM	2675	CB	LEU	174	-3.772	2.481	29.839	1.00	0.00
ATOM	2676	CG	LEU	174	-4.432	3.784	29.400	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.365	3.936	27.888	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.874	3.843	29.881	1.00	0.00
ATOM	2681	H	LEU	174	-1.871	4.334	30.804	1.00	0.00
ATOM	2682	HA	LEU	174	-3.622	2.269	31.965	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.542	1.734	29.953	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.099	2.162	29.056	1.00	0.00
ATOM	2685	HG	LEU	174	-3.895	4.609	29.846	1.00	0.00
ATOM	2686	1HD1	LEU	174	-4.608	4.953	27.618	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.073	3.263	27.427	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.369	3.700	27.546	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.480	4.351	29.144	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.921	4.380	30.817	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.248	2.839	30.023	1.00	0.00
ATOM	2692	N	THR	175	-0.868	1.773	32.034	1.00	0.00
ATOM	2693	CA	THR	175	0.326	0.936	32.096	1.00	0.00
ATOM	2697	C	THR	175	-0.006	-0.495	32.522	1.00	0.00
ATOM	2698	O	THR	175	0.750	-1.424	32.244	1.00	0.00
ATOM	2694	CB	THR	175	1.352	1.525	33.078	1.00	0.00
ATOM	2695	OG1	THR	175	0.791	2.677	33.717	1.00	0.00
ATOM	2696	CG2	THR	175	2.636	1.909	32.358	1.00	0.00
ATOM	2699	H	THR	175	-0.981	2.491	32.697	1.00	0.00
ATOM	2700	HA	THR	175	0.770	0.916	31.112	1.00	0.00
ATOM	2701	HB	THR	175	1.582	0.782	33.828	1.00	0.00
ATOM	2702	HG1	THR	175	1.291	2.877	34.514	1.00	0.00
ATOM	2703	1HG2	THR	175	2.837	2.960	32.515	1.00	0.00
ATOM	2704	2HG2	THR	175	2.528	1.718	31.301	1.00	0.00
ATOM	2705	3HG2	THR	175	3.457	1.324	32.748	1.00	0.00
ATOM	2706	N	GLY	176	-1.139	-0.667	33.198	1.00	0.00
ATOM	2707	CA	GLY	176	-1.545	-1.985	33.659	1.00	0.00
ATOM	2708	C	GLY	176	-2.181	-2.832	32.573	1.00	0.00
ATOM	2709	O	GLY	176	-2.708	-3.908	32.849	1.00	0.00
ATOM	2710	H	GLY	176	-1.702	0.111	33.395	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.252	-1.867	34.468	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.675	-2.504	34.036	1.00	0.00
ATOM	2713	N	ALA	177	-2.128	-2.351	31.337	1.00	0.00
ATOM	2714	CA	ALA	177	-2.705	-3.068	30.204	1.00	0.00
ATOM	2716	C	ALA	177	-1.807	-4.213	29.739	1.00	0.00
ATOM	2717	O	ALA	177	-2.139	-4.927	28.799	1.00	0.00
ATOM	2715	CB	ALA	177	-2.962	-2.103	29.059	1.00	0.00
ATOM	2718	H	ALA	177	-1.694	-1.487	31.183	1.00	0.00
ATOM	2719	HA	ALA	177	-3.657	-3.478	30.515	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.675	-2.540	28.375	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.036	-1.907	28.538	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.358	-1.178	29.450	1.00	0.00
ATOM	2723	N	VAL	178	-0.669	-4.389	30.397	1.00	0.00
ATOM	2724	CA	VAL	178	0.262	-5.455	30.037	1.00	0.00
ATOM	2728	C	VAL	178	-0.205	-6.791	30.611	1.00	0.00
ATOM	2729	O	VAL	178	0.403	-7.341	31.529	1.00	0.00
ATOM	2725	CB	VAL	178	1.698	-5.156	30.527	1.00	0.00
ATOM	2726	CG1	VAL	178	2.707	-6.034	29.800	1.00	0.00
ATOM	2727	CG2	VAL	178	2.040	-3.685	30.337	1.00	0.00
ATOM	2730	H	VAL	178	-0.452	-3.795	31.140	1.00	0.00
ATOM	2731	HA	VAL	178	0.281	-5.528	28.959	1.00	0.00
ATOM	2732	HB	VAL	178	1.752	-5.382	31.583	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.767	-5.732	28.764	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.393	-7.065	29.856	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.677	-5.927	30.263	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.970	-3.598	29.795	1.00	0.00



ATOM	2737	2HG2	VAL	178	2.139	-3.211	31.302	1.00	0.00
ATOM	2738	3HG2	VAL	178	1.252	-3.203	29.777	1.00	0.00
ATOM	2739	N	ALA	179	-1.302	-7.295	30.068	1.00	0.00
ATOM	2740	CA	ALA	179	-1.878	-8.558	30.516	1.00	0.00
ATOM	2742	C	ALA	179	-1.568	-9.683	29.533	1.00	0.00
ATOM	2743	O	ALA	179	-2.199	-10.741	29.560	1.00	0.00
ATOM	2741	CB	ALA	179	-3.383	-8.416	30.694	1.00	0.00
ATOM	2744	H	ALA	179	-1.747	-6.793	29.349	1.00	0.00
ATOM	2745	HA	ALA	179	-1.446	-8.801	31.475	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.675	-7.396	30.496	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.653	-8.678	31.707	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.892	-9.076	30.005	1.00	0.00
ATOM	2749	N	LEU	180	-0.600	-9.450	28.661	1.00	0.00
ATOM	2750	CA	LEU	180	-0.214	-10.444	27.668	1.00	0.00
ATOM	2755	C	LEU	180	1.038	-11.190	28.108	1.00	0.00
ATOM	2756	O	LEU	180	1.127	-12.411	27.970	1.00	0.00
ATOM	2751	CB	LEU	180	0.020	-9.778	26.311	1.00	0.00
ATOM	2752	CG	LEU	180	-1.109	-8.865	25.832	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.694	-8.122	24.573	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.375	-9.669	25.585	1.00	0.00
ATOM	2757	H	LEU	180	-0.134	-8.589	28.683	1.00	0.00
ATOM	2758	HA	LEU	180	-1.026	-11.150	27.576	1.00	0.00
ATOM	2759	1HB	LEU	180	0.163	-10.553	25.574	1.00	0.00
ATOM	2760	2HB	LEU	180	0.926	-9.192	26.374	1.00	0.00
ATOM	2761	HG	LEU	180	-1.320	-8.132	26.597	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.330	-8.828	23.841	1.00	0.00
ATOM	2763	2HD1	LEU	180	0.088	-7.416	24.811	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.545	-7.592	24.170	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.217	-10.346	24.758	1.00	0.00
ATOM	2766	2HD2	LEU	180	-3.188	-8.998	25.350	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.621	-10.235	26.471	1.00	0.00
ATOM	2768	N	GLY	181	2.003	-10.443	28.625	1.00	0.00
ATOM	2769	CA	GLY	181	3.250	-11.025	29.077	1.00	0.00
ATOM	2770	C	GLY	181	3.076	-11.889	30.308	1.00	0.00
ATOM	2771	O	GLY	181	3.128	-11.400	31.437	1.00	0.00
ATOM	2772	H	GLY	181	1.873	-9.473	28.689	1.00	0.00
ATOM	2773	1HA	GLY	181	3.943	-10.228	29.305	1.00	0.00
ATOM	2774	2HA	GLY	181	3.662	-11.628	28.282	1.00	0.00
ATOM	2775	N	ALA	182	2.869	-13.176	30.089	1.00	0.00
ATOM	2776	CA	ALA	182	2.692	-14.119	31.178	1.00	0.00
ATOM	2778	C	ALA	182	3.974	-14.903	31.408	1.00	0.00
ATOM	2779	O	ALA	182	4.645	-15.303	30.455	1.00	0.00
ATOM	2777	CB	ALA	182	1.533	-15.060	30.881	1.00	0.00
ATOM	2780	H	ALA	182	2.839	-13.504	29.164	1.00	0.00
ATOM	2781	HA	ALA	182	2.454	-13.559	32.071	1.00	0.00
ATOM	2782	1HB	ALA	182	1.864	-15.840	30.211	1.00	0.00
ATOM	2783	2HB	ALA	182	0.730	-14.506	30.419	1.00	0.00
ATOM	2784	3HB	ALA	182	1.184	-15.501	31.802	1.00	0.00
ATOM	2785	N	LEU	183	4.312	-15.117	32.668	1.00	0.00
ATOM	2790	CA	LEU	183	5.514	-15.853	33.020	1.00	0.00
ATOM	2791	C	LEU	183	5.153	-17.062	33.870	1.00	0.00
ATOM	2792	O	LEU	183	4.235	-17.809	33.477	1.00	0.00
ATOM	2786	CB	LEU	183	6.500	-14.949	33.764	1.00	0.00
ATOM	2787	CG	LEU	183	7.484	-14.190	32.873	1.00	0.00
ATOM	2788	CD1	LEU	183	7.236	-12.693	32.964	1.00	0.00
ATOM	2789	CD2	LEU	183	8.917	-14.521	33.259	1.00	0.00
ATOM	2793	OXT	LEU	183	5.776	-17.255	34.934	1.00	0.00
ATOM	2794	H	LEU	183	3.736	-14.774	33.384	1.00	0.00
ATOM	2795	HA	LEU	183	5.972	-16.196	32.104	1.00	0.00
ATOM	2796	1HB	LEU	183	7.069	-15.559	34.450	1.00	0.00
ATOM	2797	2HB	LEU	183	5.935	-14.228	34.337	1.00	0.00
ATOM	2798	HG	LEU	183	7.335	-14.492	31.846	1.00	0.00
ATOM	2799	1HD1	LEU	183	7.542	-12.221	32.042	1.00	0.00
ATOM	2800	2HD1	LEU	183	7.806	-12.283	33.785	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.185	-12.511	33.130	1.00	0.00
ATOM	2802	1HD2	LEU	183	9.470	-14.808	32.378	1.00	0.00
ATOM	2803	2HD2	LEU	183	8.919	-15.335	33.968	1.00	0.00
ATOM	2804	3HD2	LEU	183	9.378	-13.653	33.707	1.00	0.00
ENDMDL									
MODEL									
ATOM	3	N	GLY	-4	-4.689	-16.343	-17.751	1.00	0.00
ATOM	4	CA	GLY	-4	-5.010	-15.610	-16.503	1.00	0.00
ATOM	1	C	GLY	-4	-4.649	-14.144	-16.604	1.00	0.00



ATOM	2	O	GLY	-4	-4.267	-13.678	-17.678	1.00	0.00
ATOM	5	1HA	GLY	-4	-6.068	-15.698	-16.305	1.00	0.00
ATOM	6	2HA	GLY	-4	-4.460	-16.052	-15.686	1.00	0.00
ATOM	7	1HT	GLY	-4	-3.830	-15.947	-18.191	1.00	0.00
ATOM	8	2HT	GLY	-4	-5.478	-16.263	-18.427	1.00	0.00
ATOM	9	3HT	GLY	-4	-4.528	-17.353	-17.545	1.00	0.00
ATOM	10	N	PRO	-3	-4.759	-13.390	-15.500	1.00	0.00
ATOM	11	CA	PRO	-3	-4.433	-11.964	-15.476	1.00	0.00
ATOM	15	C	PRO	-3	-2.930	-11.728	-15.569	1.00	0.00
ATOM	16	O	PRO	-3	-2.173	-12.148	-14.694	1.00	0.00
ATOM	12	CB	PRO	-3	-4.968	-11.481	-14.117	1.00	0.00
ATOM	13	CG	PRO	-3	-5.768	-12.617	-13.567	1.00	0.00
ATOM	14	CD	PRO	-3	-5.204	-13.862	-14.185	1.00	0.00
ATOM	17	HA	PRO	-3	-4.932	-11.432	-16.274	1.00	0.00
ATOM	18	1HB	PRO	-3	-5.580	-10.603	-14.264	1.00	0.00
ATOM	19	2HB	PRO	-3	-4.137	-11.237	-13.470	1.00	0.00
ATOM	20	1HG	PRO	-3	-6.806	-12.501	-13.839	1.00	0.00
ATOM	21	2HG	PRO	-3	-5.663	-12.653	-12.493	1.00	0.00
ATOM	22	1HD	PRO	-3	-5.968	-14.618	-14.283	1.00	0.00
ATOM	23	2HD	PRO	-3	-4.372	-14.232	-13.602	1.00	0.00
ATOM	24	N	LEU	-2	-2.502	-11.065	-16.636	1.00	0.00
ATOM	25	CA	LEU	-2	-1.083	-10.788	-16.841	1.00	0.00
ATOM	30	C	LEU	-2	-0.602	-9.669	-15.919	1.00	0.00
ATOM	31	O	LEU	-2	0.582	-9.588	-15.593	1.00	0.00
ATOM	26	CB	LEU	-2	-0.810	-10.421	-18.304	1.00	0.00
ATOM	27	CG	LEU	-2	-1.530	-9.171	-18.812	1.00	0.00
ATOM	28	CD1	LEU	-2	-0.526	-8.092	-19.188	1.00	0.00
ATOM	29	CD2	LEU	-2	-2.411	-9.515	-20.001	1.00	0.00
ATOM	32	H	LEU	-2	-3.153	-10.761	-17.306	1.00	0.00
ATOM	33	HA	LEU	-2	-0.537	-11.689	-16.601	1.00	0.00
ATOM	34	1HB	LEU	-2	-1.106	-11.255	-18.922	1.00	0.00
ATOM	35	2HB	LEU	-2	0.253	-10.271	-18.421	1.00	0.00
ATOM	36	HG	LEU	-2	-2.161	-8.781	-18.027	1.00	0.00
ATOM	37	1HD1	LEU	-2	0.304	-8.540	-19.714	1.00	0.00
ATOM	38	2HD1	LEU	-2	-0.165	-7.608	-18.292	1.00	0.00
ATOM	39	3HD1	LEU	-2	-1.002	-7.362	-19.824	1.00	0.00
ATOM	40	1HD2	LEU	-2	-3.429	-9.645	-19.668	1.00	0.00
ATOM	41	2HD2	LEU	-2	-2.061	-10.430	-20.455	1.00	0.00
ATOM	42	3HD2	LEU	-2	-2.367	-8.714	-20.724	1.00	0.00
ATOM	43	N	GLY	-1	-1.523	-8.812	-15.506	1.00	0.00
ATOM	44	CA	GLY	-1	-1.175	-7.712	-14.632	1.00	0.00
ATOM	45	C	GLY	-1	-2.187	-6.590	-14.703	1.00	0.00
ATOM	46	O	GLY	-1	-2.947	-6.495	-15.670	1.00	0.00
ATOM	47	H	GLY	-1	-2.450	-8.925	-15.800	1.00	0.00
ATOM	48	1HA	GLY	-1	-0.207	-7.327	-14.919	1.00	0.00
ATOM	49	2HA	GLY	-1	-1.122	-8.073	-13.615	1.00	0.00
ATOM	50	N	SER	0	-2.205	-5.743	-13.683	1.00	0.00
ATOM	51	CA	SER	0	-3.128	-4.618	-13.624	1.00	0.00
ATOM	54	C	SER	0	-2.555	-3.522	-12.730	1.00	0.00
ATOM	55	O	SER	0	-1.942	-3.814	-11.704	1.00	0.00
ATOM	52	CB	SER	0	-4.495	-5.069	-13.090	1.00	0.00
ATOM	53	OG	SER	0	-5.056	-6.080	-13.911	1.00	0.00
ATOM	56	H	SER	0	-1.576	-5.874	-12.942	1.00	0.00
ATOM	57	HA	SER	0	-3.248	-4.229	-14.625	1.00	0.00
ATOM	58	1HB	SER	0	-5.167	-4.223	-13.069	1.00	0.00
ATOM	59	2HB	SER	0	-4.377	-5.460	-12.090	1.00	0.00
ATOM	60	HG	SER	0	-4.486	-6.218	-14.680	1.00	0.00
ATOM	61	N	MET	1	-2.739	-2.270	-13.127	1.00	0.00
ATOM	62	CA	MET	1	-2.222	-1.146	-12.352	1.00	0.00
ATOM	67	C	MET	1	-3.343	-0.444	-11.591	1.00	0.00
ATOM	68	O	MET	1	-3.139	0.619	-11.009	1.00	0.00
ATOM	63	CB	MET	1	-1.508	-0.146	-13.266	1.00	0.00
ATOM	64	CG	MET	1	-0.233	-0.689	-13.891	1.00	0.00
ATOM	65	SD	MET	1	1.247	-0.219	-12.975	1.00	0.00
ATOM	66	CE	MET	1	2.472	-0.243	-14.283	1.00	0.00
ATOM	69	H	MET	1	-3.225	-2.096	-13.961	1.00	0.00
ATOM	70	HA	MET	1	-1.511	-1.537	-11.639	1.00	0.00
ATOM	71	1HB	MET	1	-1.257	0.732	-12.691	1.00	0.00
ATOM	72	2HB	MET	1	-2.181	0.138	-14.063	1.00	0.00
ATOM	73	1HG	MET	1	-0.153	-0.309	-14.898	1.00	0.00
ATOM	74	2HG	MET	1	-0.294	-1.767	-13.919	1.00	0.00
ATOM	75	1HE	MET	1	2.383	0.654	-14.878	1.00	0.00
ATOM	76	2HE	MET	1	2.311	-1.108	-14.911	1.00	0.00



ATOM	77	3HE	MET	1	3.460	-0.291	-13.851	1.00	0.00
ATOM	78	N	ALA	2	-4.526	-1.045	-11.598	1.00	0.00
ATOM	79	CA	ALA	2	-5.675	-0.473	-10.908	1.00	0.00
ATOM	81	C	ALA	2	-6.532	-1.568	-10.284	1.00	0.00
ATOM	82	O	ALA	2	-6.851	-2.564	-10.935	1.00	0.00
ATOM	80	CB	ALA	2	-6.505	0.365	-11.869	1.00	0.00
ATOM	83	H	ALA	2	-4.631	-1.892	-12.075	1.00	0.00
ATOM	84	HA	ALA	2	-5.306	0.174	-10.126	1.00	0.00
ATOM	85	1HB	ALA	2	-6.829	-0.250	-12.695	1.00	0.00
ATOM	86	2HB	ALA	2	-5.906	1.183	-12.242	1.00	0.00
ATOM	87	3HB	ALA	2	-7.368	0.755	-11.352	1.00	0.00
ATOM	88	N	THR	3	-6.897	-1.379	-9.024	1.00	0.00
ATOM	89	CA	THR	3	-7.712	-2.343	-8.308	1.00	0.00
ATOM	93	C	THR	3	-9.116	-1.786	-8.060	1.00	0.00
ATOM	94	O	THR	3	-9.267	-0.649	-7.604	1.00	0.00
ATOM	90	CB	THR	3	-7.052	-2.733	-6.966	1.00	0.00
ATOM	91	OG1	THR	3	-7.375	-1.768	-5.955	1.00	0.00
ATOM	92	CG2	THR	3	-5.537	-2.817	-7.099	1.00	0.00
ATOM	95	H	THR	3	-6.609	-0.570	-8.558	1.00	0.00
ATOM	96	HA	THR	3	-7.791	-3.230	-8.920	1.00	0.00
ATOM	97	HB	THR	3	-7.427	-3.695	-6.669	1.00	0.00
ATOM	98	HG1	THR	3	-7.929	-1.080	-6.338	1.00	0.00
ATOM	99	1HG2	THR	3	-5.078	-2.551	-6.158	1.00	0.00
ATOM	100	2HG2	THR	3	-5.206	-2.136	-7.868	1.00	0.00
ATOM	101	3HG2	THR	3	-5.256	-3.825	-7.364	1.00	0.00
ATOM	102	N	PRO	4	-10.159	-2.569	-8.368	1.00	0.00
ATOM	103	CA	PRO	4	-11.554	-2.148	-8.189	1.00	0.00
ATOM	107	C	PRO	4	-11.952	-2.012	-6.719	1.00	0.00
ATOM	108	O	PRO	4	-11.414	-2.706	-5.854	1.00	0.00
ATOM	104	CB	PRO	4	-12.366	-3.271	-8.854	1.00	0.00
ATOM	105	CG	PRO	4	-11.379	-4.072	-9.637	1.00	0.00
ATOM	106	CD	PRO	4	-10.069	-3.924	-8.926	1.00	0.00
ATOM	109	HA	PRO	4	-11.749	-1.216	-8.697	1.00	0.00
ATOM	110	1HB	PRO	4	-13.118	-2.838	-9.497	1.00	0.00
ATOM	111	2HB	PRO	4	-12.843	-3.871	-8.092	1.00	0.00
ATOM	112	1HG	PRO	4	-11.306	-3.684	-10.642	1.00	0.00
ATOM	113	2HG	PRO	4	-11.680	-5.109	-9.655	1.00	0.00
ATOM	114	1HD	PRO	4	-9.247	-4.002	-9.621	1.00	0.00
ATOM	115	2HD	PRO	4	-9.977	-4.661	-8.141	1.00	0.00
ATOM	116	N	ALA	5	-12.907	-1.115	-6.458	1.00	0.00
ATOM	117	CA	ALA	5	-13.422	-0.862	-5.110	1.00	0.00
ATOM	119	C	ALA	5	-12.307	-0.504	-4.129	1.00	0.00
ATOM	120	O	ALA	5	-12.201	-1.082	-3.045	1.00	0.00
ATOM	118	CB	ALA	5	-14.215	-2.062	-4.610	1.00	0.00
ATOM	121	H	ALA	5	-13.290	-0.604	-7.206	1.00	0.00
ATOM	122	HA	ALA	5	-14.101	-0.024	-5.174	1.00	0.00
ATOM	123	1HB	ALA	5	-15.248	-1.779	-4.471	1.00	0.00
ATOM	124	2HB	ALA	5	-13.806	-2.398	-3.670	1.00	0.00
ATOM	125	3HB	ALA	5	-14.155	-2.861	-5.334	1.00	0.00
ATOM	126	N	SER	6	-11.481	0.457	-4.512	1.00	0.00
ATOM	127	CA	SER	6	-10.381	0.896	-3.674	1.00	0.00
ATOM	130	C	SER	6	-10.841	1.973	-2.691	1.00	0.00
ATOM	131	O	SER	6	-10.777	3.166	-2.984	1.00	0.00
ATOM	128	CB	SER	6	-9.250	1.423	-4.557	1.00	0.00
ATOM	129	OG	SER	6	-9.632	1.408	-5.927	1.00	0.00
ATOM	132	H	SER	6	-11.616	0.888	-5.384	1.00	0.00
ATOM	133	HA	SER	6	-10.025	0.042	-3.116	1.00	0.00
ATOM	134	1HB	SER	6	-8.377	0.800	-4.432	1.00	0.00
ATOM	135	2HB	SER	6	-9.015	2.437	-4.272	1.00	0.00
ATOM	136	HG	SER	6	-9.588	0.501	-6.265	1.00	0.00
ATOM	137	N	ALA	7	-11.312	1.543	-1.528	1.00	0.00
ATOM	138	CA	ALA	7	-11.782	2.467	-0.505	1.00	0.00
ATOM	140	C	ALA	7	-10.753	2.596	0.611	1.00	0.00
ATOM	141	O	ALA	7	-10.510	1.640	1.354	1.00	0.00
ATOM	139	CB	ALA	7	-13.119	2.001	0.054	1.00	0.00
ATOM	142	H	ALA	7	-11.344	0.579	-1.351	1.00	0.00
ATOM	143	HA	ALA	7	-11.925	3.433	-0.967	1.00	0.00
ATOM	144	1HB	ALA	7	-13.508	1.203	-0.561	1.00	0.00
ATOM	145	2HB	ALA	7	-13.816	2.826	0.057	1.00	0.00
ATOM	146	3HB	ALA	7	-12.981	1.642	1.064	1.00	0.00
ATOM	147	N	PRO	8	-10.127	3.776	0.743	1.00	0.00
ATOM	148	CA	PRO	8	-9.109	4.042	1.767	1.00	0.00
ATOM	152	C	PRO	8	-9.722	4.258	3.149	1.00	0.00



ATOM	153	O	PRO	8	-9.478	5.272	3.803	1.00	0.00
ATOM	149	CB	PRO	8	-8.422	5.330	1.277	1.00	0.00
ATOM	150	CG	PRO	8	-9.006	5.622	-0.069	1.00	0.00
ATOM	151	CD	PRO	8	-10.346	4.951	-0.100	1.00	0.00
ATOM	154	HA	PRO	8	-8.383	3.241	1.822	1.00	0.00
ATOM	155	1HB	PRO	8	-7.357	5.167	1.216	1.00	0.00
ATOM	156	2HB	PRO	8	-8.626	6.130	1.973	1.00	0.00
ATOM	157	1HG	PRO	8	-8.367	5.220	-0.842	1.00	0.00
ATOM	158	2HG	PRO	8	-9.120	6.689	-0.194	1.00	0.00
ATOM	159	1HD	PRO	8	-10.604	4.662	-1.107	1.00	0.00
ATOM	160	2HD	PRO	8	-11.104	5.596	0.320	1.00	0.00
ATOM	161	N	ASP	9	-10.520	3.294	3.582	1.00	0.00
ATOM	162	CA	ASP	9	-11.180	3.359	4.878	1.00	0.00
ATOM	167	C	ASP	9	-10.312	2.714	5.955	1.00	0.00
ATOM	168	O	ASP	9	-9.134	2.430	5.726	1.00	0.00
ATOM	163	CB	ASP	9	-12.537	2.655	4.811	1.00	0.00
ATOM	164	CG	ASP	9	-13.698	3.612	4.979	1.00	0.00
ATOM	165	OD1	ASP	9	-14.090	3.877	6.131	1.00	0.00
ATOM	166	OD2	ASP	9	-14.232	4.092	3.954	1.00	0.00
ATOM	169	H	ASP	9	-10.674	2.513	3.006	1.00	0.00
ATOM	170	HA	ASP	9	-11.331	4.400	5.124	1.00	0.00
ATOM	171	1HB	ASP	9	-12.587	1.913	5.594	1.00	0.00
ATOM	172	2HB	ASP	9	-12.634	2.167	3.852	1.00	0.00
ATOM	173	N	THR	10	-10.902	2.472	7.118	1.00	0.00
ATOM	174	CA	THR	10	-10.202	1.853	8.234	1.00	0.00
ATOM	178	C	THR	10	-9.668	0.481	7.844	1.00	0.00
ATOM	179	O	THR	10	-8.581	0.084	8.260	1.00	0.00
ATOM	175	CB	THR	10	-11.138	1.706	9.446	1.00	0.00
ATOM	176	OG1	THR	10	-12.483	2.012	9.054	1.00	0.00
ATOM	177	CG2	THR	10	-10.710	2.630	10.577	1.00	0.00
ATOM	180	H	THR	10	-11.845	2.709	7.233	1.00	0.00
ATOM	181	HA	THR	10	-9.376	2.495	8.513	1.00	0.00
ATOM	182	HB	THR	10	-11.095	0.684	9.797	1.00	0.00
ATOM	183	HG1	THR	10	-13.057	1.243	9.232	1.00	0.00
ATOM	184	1HG2	THR	10	-9.673	2.448	10.818	1.00	0.00
ATOM	185	2HG2	THR	10	-11.321	2.439	11.446	1.00	0.00
ATOM	186	3HG2	THR	10	-10.834	3.657	10.267	1.00	0.00
ATOM	187	N	ARG	11	-10.439	-0.232	7.031	1.00	0.00
ATOM	188	CA	ARG	11	-10.050	-1.558	6.568	1.00	0.00
ATOM	196	C	ARG	11	-8.774	-1.486	5.743	1.00	0.00
ATOM	197	O	ARG	11	-7.903	-2.343	5.863	1.00	0.00
ATOM	189	CB	ARG	11	-11.175	-2.188	5.743	1.00	0.00
ATOM	190	CG	ARG	11	-10.916	-3.639	5.369	1.00	0.00
ATOM	191	CD	ARG	11	-10.759	-4.511	6.604	1.00	0.00
ATOM	192	NE	ARG	11	-9.460	-5.184	6.642	1.00	0.00
ATOM	193	CZ	ARG	11	-9.294	-6.495	6.448	1.00	0.00
ATOM	194	NH1	ARG	11	-10.333	-7.263	6.140	1.00	0.00
ATOM	195	NH2	ARG	11	-8.085	-7.037	6.547	1.00	0.00
ATOM	198	H	ARG	11	-11.293	0.148	6.730	1.00	0.00
ATOM	199	HA	ARG	11	-9.861	-2.172	7.436	1.00	0.00
ATOM	200	1HB	ARG	11	-11.300	-1.620	4.833	1.00	0.00
ATOM	201	2HB	ARG	11	-12.093	-2.144	6.313	1.00	0.00
ATOM	202	1HG	ARG	11	-10.011	-3.693	4.783	1.00	0.00
ATOM	203	2HG	ARG	11	-11.748	-4.004	4.786	1.00	0.00
ATOM	204	1HD	ARG	11	-11.540	-5.257	6.604	1.00	0.00
ATOM	205	2HD	ARG	11	-10.857	-3.889	7.482	1.00	0.00
ATOM	206	HE	ARG	11	-8.671	-4.628	6.831	1.00	0.00
ATOM	207	1HH1	ARG	11	-11.257	-6.862	6.050	1.00	0.00
ATOM	208	2HH1	ARG	11	-10.205	-8.253	5.985	1.00	0.00
ATOM	209	1HH2	ARG	11	-7.290	-6.468	6.769	1.00	0.00
ATOM	210	2HH2	ARG	11	-7.963	-8.021	6.398	1.00	0.00
ATOM	211	N	ALA	12	-8.660	-0.453	4.921	1.00	0.00
ATOM	212	CA	ALA	12	-7.479	-0.276	4.099	1.00	0.00
ATOM	214	C	ALA	12	-6.301	0.147	4.964	1.00	0.00
ATOM	215	O	ALA	12	-5.164	-0.246	4.720	1.00	0.00
ATOM	213	CB	ALA	12	-7.736	0.749	3.005	1.00	0.00
ATOM	216	H	ALA	12	-9.380	0.210	4.877	1.00	0.00
ATOM	217	HA	ALA	12	-7.250	-1.224	3.634	1.00	0.00
ATOM	218	1HB	ALA	12	-6.806	1.227	2.736	1.00	0.00
ATOM	219	2HB	ALA	12	-8.432	1.493	3.364	1.00	0.00
ATOM	220	3HB	ALA	12	-8.151	0.255	2.139	1.00	0.00
ATOM	221	N	LEU	13	-6.583	0.946	5.988	1.00	0.00
ATOM	222	CA	LEU	13	-5.537	1.412	6.886	1.00	0.00



ATOM	227	C	LEU	13	-5.016	0.269	7.762	1.00	0.00
ATOM	228	O	LEU	13	-3.809	0.125	7.943	1.00	0.00
ATOM	223	CB	LEU	13	-6.050	2.574	7.739	1.00	0.00
ATOM	224	CG	LEU	13	-5.295	2.817	9.045	1.00	0.00
ATOM	225	CD1	LEU	13	-4.033	3.631	8.790	1.00	0.00
ATOM	226	CD2	LEU	13	-6.194	3.521	10.045	1.00	0.00
ATOM	229	H	LEU	13	-7.518	1.228	6.141	1.00	0.00
ATOM	230	HA	LEU	13	-4.722	1.767	6.273	1.00	0.00
ATOM	231	1HB	LEU	13	-7.087	2.388	7.978	1.00	0.00
ATOM	232	2HB	LEU	13	-5.990	3.475	7.143	1.00	0.00
ATOM	233	HG	LEU	13	-5.000	1.868	9.466	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.245	3.287	9.444	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.232	4.674	8.983	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.726	3.506	7.762	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.982	4.581	10.037	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.010	3.126	11.033	1.00	0.00
ATOM	239	3HD2	LEU	13	-7.228	3.358	9.778	1.00	0.00
ATOM	240	N	VAL	14	-5.921	-0.554	8.288	1.00	0.00
ATOM	241	CA	VAL	14	-5.511	-1.681	9.121	1.00	0.00
ATOM	245	C	VAL	14	-4.749	-2.705	8.278	1.00	0.00
ATOM	246	O	VAL	14	-3.796	-3.327	8.745	1.00	0.00
ATOM	242	CB	VAL	14	-6.709	-2.354	9.849	1.00	0.00
ATOM	243	CG1	VAL	14	-7.593	-3.133	8.888	1.00	0.00
ATOM	244	CG2	VAL	14	-6.216	-3.259	10.969	1.00	0.00
ATOM	247	H	VAL	14	-6.877	-0.405	8.109	1.00	0.00
ATOM	248	HA	VAL	14	-4.836	-1.295	9.874	1.00	0.00
ATOM	249	HB	VAL	14	-7.313	-1.576	10.294	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.596	-3.192	9.286	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.198	-4.131	8.764	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.615	-2.634	7.931	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.889	-2.655	11.803	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.391	-3.857	10.612	1.00	0.00
ATOM	255	3HG2	VAL	14	-7.019	-3.908	11.287	1.00	0.00
ATOM	256	N	ALA	15	-5.160	-2.851	7.018	1.00	0.00
ATOM	257	CA	ALA	15	-4.500	-3.774	6.104	1.00	0.00
ATOM	259	C	ALA	15	-3.148	-3.217	5.668	1.00	0.00
ATOM	260	O	ALA	15	-2.286	-3.953	5.199	1.00	0.00
ATOM	258	CB	ALA	15	-5.377	-4.046	4.890	1.00	0.00
ATOM	261	H	ALA	15	-5.917	-2.311	6.695	1.00	0.00
ATOM	262	HA	ALA	15	-4.344	-4.707	6.626	1.00	0.00
ATOM	263	1HB	ALA	15	-4.961	-3.551	4.026	1.00	0.00
ATOM	264	2HB	ALA	15	-6.373	-3.671	5.075	1.00	0.00
ATOM	265	3HB	ALA	15	-5.421	-5.110	4.709	1.00	0.00
ATOM	266	N	ASP	16	-2.979	-1.910	5.833	1.00	0.00
ATOM	267	CA	ASP	16	-1.739	-1.230	5.468	1.00	0.00
ATOM	272	C	ASP	16	-0.663	-1.462	6.518	1.00	0.00
ATOM	273	O	ASP	16	0.349	-2.104	6.247	1.00	0.00
ATOM	268	CB	ASP	16	-1.999	0.271	5.297	1.00	0.00
ATOM	269	CG	ASP	16	-0.786	1.151	5.581	1.00	0.00
ATOM	270	OD1	ASP	16	0.224	1.033	4.863	1.00	0.00
ATOM	271	OD2	ASP	16	-0.868	1.995	6.502	1.00	0.00
ATOM	274	H	ASP	16	-3.712	-1.382	6.213	1.00	0.00
ATOM	275	HA	ASP	16	-1.401	-1.638	4.527	1.00	0.00
ATOM	276	1HB	ASP	16	-2.793	0.564	5.970	1.00	0.00
ATOM	277	2HB	ASP	16	-2.315	0.456	4.283	1.00	0.00
ATOM	278	N	PHE	17	-0.890	-0.927	7.712	1.00	0.00
ATOM	279	CA	PHE	17	0.062	-1.052	8.807	1.00	0.00
ATOM	287	C	PHE	17	0.407	-2.505	9.096	1.00	0.00
ATOM	288	O	PHE	17	1.582	-2.868	9.177	1.00	0.00
ATOM	280	CB	PHE	17	-0.484	-0.389	10.071	1.00	0.00
ATOM	281	CG	PHE	17	0.594	0.034	11.027	1.00	0.00
ATOM	282	CD1	PHE	17	1.703	0.737	10.579	1.00	0.00
ATOM	283	CD2	PHE	17	0.507	-0.280	12.372	1.00	0.00
ATOM	284	CE1	PHE	17	2.699	1.119	11.455	1.00	0.00
ATOM	285	CE2	PHE	17	1.501	0.097	13.253	1.00	0.00
ATOM	286	CZ	PHE	17	2.599	0.798	12.795	1.00	0.00
ATOM	289	H	PHE	17	-1.718	-0.419	7.852	1.00	0.00
ATOM	290	HA	PHE	17	0.965	-0.538	8.513	1.00	0.00
ATOM	291	1HB	PHE	17	-1.132	-1.084	10.584	1.00	0.00
ATOM	292	2HB	PHE	17	-1.052	0.489	9.797	1.00	0.00
ATOM	293	HD1	PHE	17	-0.352	-0.829	12.733	1.00	0.00
ATOM	294	HD2	PHE	17	1.782	0.989	9.531	1.00	0.00
ATOM	295	HE1	PHE	17	1.420	-0.155	14.300	1.00	0.00



ATOM	296	HE2	PHE	17	3.556	1.667	11.094	1.00	0.00
ATOM	297	HZ	PHE	17	3.377	1.095	13.482	1.00	0.00
ATOM	298	N	VAL	18	-0.613	-3.335	9.256	1.00	0.00
ATOM	299	CA	VAL	18	-0.398	-4.744	9.542	1.00	0.00
ATOM	303	C	VAL	18	0.114	-5.473	8.303	1.00	0.00
ATOM	304	O	VAL	18	0.992	-6.328	8.397	1.00	0.00
ATOM	300	CB	VAL	18	-1.692	-5.419	10.057	1.00	0.00
ATOM	301	CG1	VAL	18	-1.435	-6.867	10.444	1.00	0.00
ATOM	302	CG2	VAL	18	-2.262	-4.646	11.238	1.00	0.00
ATOM	305	H	VAL	18	-1.531	-2.991	9.183	1.00	0.00
ATOM	306	HA	VAL	18	0.354	-4.814	10.316	1.00	0.00
ATOM	307	HB	VAL	18	-2.422	-5.407	9.260	1.00	0.00
ATOM	308	1HG1	VAL	18	-1.099	-6.911	11.469	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.677	-7.283	9.798	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.348	-7.435	10.339	1.00	0.00
ATOM	311	1HG2	VAL	18	-3.279	-4.356	11.021	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.664	-3.764	11.413	1.00	0.00
ATOM	313	3HG2	VAL	18	-2.246	-5.271	12.118	1.00	0.00
ATOM	314	N	GLY	19	-0.418	-5.117	7.143	1.00	0.00
ATOM	315	CA	GLY	19	0.012	-5.741	5.907	1.00	0.00
ATOM	316	C	GLY	19	1.477	-5.500	5.623	1.00	0.00
ATOM	317	O	GLY	19	2.240	-6.443	5.443	1.00	0.00
ATOM	318	H	GLY	19	-1.103	-4.415	7.122	1.00	0.00
ATOM	319	1HA	GLY	19	-0.574	-5.342	5.091	1.00	0.00
ATOM	320	2HA	GLY	19	-0.160	-6.805	5.974	1.00	0.00
ATOM	321	N	TYR	20	1.861	-4.232	5.582	1.00	0.00
ATOM	322	CA	TYR	20	3.241	-3.830	5.323	1.00	0.00
ATOM	331	C	TYR	20	4.192	-4.471	6.334	1.00	0.00
ATOM	332	O	TYR	20	5.248	-4.979	5.966	1.00	0.00
ATOM	323	CB	TYR	20	3.357	-2.303	5.395	1.00	0.00
ATOM	324	CG	TYR	20	4.537	-1.723	4.641	1.00	0.00
ATOM	325	CD1	TYR	20	4.427	-1.373	3.300	1.00	0.00
ATOM	326	CD2	TYR	20	5.757	-1.511	5.274	1.00	0.00
ATOM	327	CE1	TYR	20	5.499	-0.831	2.613	1.00	0.00
ATOM	328	CE2	TYR	20	6.832	-0.972	4.594	1.00	0.00
ATOM	329	CZ	TYR	20	6.698	-0.633	3.264	1.00	0.00
ATOM	330	OH	TYR	20	7.768	-0.092	2.583	1.00	0.00
ATOM	333	H	TYR	20	1.188	-3.533	5.728	1.00	0.00
ATOM	334	HA	TYR	20	3.500	-4.158	4.327	1.00	0.00
ATOM	335	1HB	TYR	20	3.450	-2.009	6.430	1.00	0.00
ATOM	336	2HB	TYR	20	2.461	-1.864	4.985	1.00	0.00
ATOM	337	HD1	TYR	20	3.487	-1.530	2.793	1.00	0.00
ATOM	338	HD2	TYR	20	5.860	-1.777	6.316	1.00	0.00
ATOM	339	HE1	TYR	20	5.392	-0.567	1.571	1.00	0.00
ATOM	340	HE2	TYR	20	7.771	-0.817	5.104	1.00	0.00
ATOM	341	HH	TYR	20	8.583	-0.510	2.885	1.00	0.00
ATOM	342	N	LYS	21	3.803	-4.440	7.607	1.00	0.00
ATOM	343	CA	LYS	21	4.613	-5.006	8.681	1.00	0.00
ATOM	349	C	LYS	21	4.783	-6.514	8.519	1.00	0.00
ATOM	350	O	LYS	21	5.886	-7.043	8.659	1.00	0.00
ATOM	344	CB	LYS	21	3.977	-4.697	10.038	1.00	0.00
ATOM	345	CG	LYS	21	4.870	-3.877	10.956	1.00	0.00
ATOM	346	CD	LYS	21	5.981	-4.724	11.558	1.00	0.00
ATOM	347	CE	LYS	21	7.184	-3.875	11.943	1.00	0.00
ATOM	348	NZ	LYS	21	7.610	-4.125	13.345	1.00	0.00
ATOM	351	H	LYS	21	2.945	-4.020	7.830	1.00	0.00
ATOM	352	HA	LYS	21	5.586	-4.541	8.639	1.00	0.00
ATOM	353	1HB	LYS	21	3.740	-5.627	10.535	1.00	0.00
ATOM	354	2HB	LYS	21	3.063	-4.146	9.874	1.00	0.00
ATOM	355	1HG	LYS	21	4.268	-3.468	11.754	1.00	0.00
ATOM	356	2HG	LYS	21	5.312	-3.072	10.388	1.00	0.00
ATOM	357	1HD	LYS	21	6.290	-5.464	10.834	1.00	0.00
ATOM	358	2HD	LYS	21	5.605	-5.218	12.442	1.00	0.00
ATOM	359	1HE	LYS	21	6.923	-2.834	11.835	1.00	0.00
ATOM	360	2HE	LYS	21	8.003	-4.113	11.280	1.00	0.00
ATOM	361	1HZ	LYS	21	8.651	-4.122	13.414	1.00	0.00
ATOM	362	2HZ	LYS	21	7.256	-5.040	13.676	1.00	0.00
ATOM	363	3HZ	LYS	21	7.242	-3.374	13.977	1.00	0.00
ATOM	364	N	LEU	22	3.688	-7.199	8.225	1.00	0.00
ATOM	365	CA	LEU	22	3.718	-8.645	8.046	1.00	0.00
ATOM	370	C	LEU	22	4.482	-8.995	6.783	1.00	0.00
ATOM	371	O	LEU	22	5.297	-9.910	6.773	1.00	0.00
ATOM	366	CB	LEU	22	2.298	-9.211	7.966	1.00	0.00



ATOM	367	CG	LEU	22	1.692	-9.663	9.297	1.00	0.00
ATOM	368	CD1	LEU	22	1.821	-8.575	10.348	1.00	0.00
ATOM	369	CD2	LEU	22	0.235	-10.046	9.100	1.00	0.00
ATOM	372	H	LEU	22	2.833	-6.722	8.129	1.00	0.00
ATOM	373	HA	LEU	22	4.226	-9.079	8.895	1.00	0.00
ATOM	374	1HB	LEU	22	2.311	-10.060	7.297	1.00	0.00
ATOM	375	2HB	LEU	22	1.657	-8.453	7.542	1.00	0.00
ATOM	376	HG	LEU	22	2.221	-10.533	9.655	1.00	0.00
ATOM	377	1HD1	LEU	22	2.204	-9.002	11.264	1.00	0.00
ATOM	378	2HD1	LEU	22	0.851	-8.138	10.535	1.00	0.00
ATOM	379	3HD1	LEU	22	2.498	-7.811	9.996	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.374	-9.155	9.099	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.078	-10.696	9.904	1.00	0.00
ATOM	382	3HD2	LEU	22	0.122	-10.560	8.157	1.00	0.00
ATOM	383	N	ARG	23	4.216	-8.244	5.725	1.00	0.00
ATOM	384	CA	ARG	23	4.871	-8.444	4.439	1.00	0.00
ATOM	392	C	ARG	23	6.358	-8.111	4.536	1.00	0.00
ATOM	393	O	ARG	23	7.148	-8.479	3.667	1.00	0.00
ATOM	385	CB	ARG	23	4.182	-7.577	3.374	1.00	0.00
ATOM	386	CG	ARG	23	4.181	-8.173	1.983	1.00	0.00
ATOM	387	CD	ARG	23	3.687	-7.161	0.959	1.00	0.00
ATOM	388	NE	ARG	23	4.628	-6.053	0.759	1.00	0.00
ATOM	389	CZ	ARG	23	5.825	-6.160	0.173	1.00	0.00
ATOM	390	NH1	ARG	23	6.260	-7.330	-0.285	1.00	0.00
ATOM	391	NH2	ARG	23	6.586	-5.081	0.039	1.00	0.00
ATOM	394	H	ARG	23	3.556	-7.519	5.814	1.00	0.00
ATOM	395	HA	ARG	23	4.766	-9.486	4.172	1.00	0.00
ATOM	396	1HB	ARG	23	4.672	-6.620	3.323	1.00	0.00
ATOM	397	2HB	ARG	23	3.155	-7.423	3.669	1.00	0.00
ATOM	398	1HG	ARG	23	3.530	-9.036	1.969	1.00	0.00
ATOM	399	2HG	ARG	23	5.187	-8.471	1.726	1.00	0.00
ATOM	400	1HD	ARG	23	2.737	-6.751	1.304	1.00	0.00
ATOM	401	2HD	ARG	23	3.537	-7.666	0.016	1.00	0.00
ATOM	402	HE	ARG	23	4.344	-5.162	1.080	1.00	0.00
ATOM	403	1HH1	ARG	23	5.694	-8.149	-0.194	1.00	0.00
ATOM	404	2HH1	ARG	23	7.161	-7.395	-0.722	1.00	0.00
ATOM	405	1HH2	ARG	23	6.265	-4.192	0.373	1.00	0.00
ATOM	406	2HH2	ARG	23	7.498	-5.150	-0.398	1.00	0.00
ATOM	407	N	GLN	24	6.727	-7.421	5.611	1.00	0.00
ATOM	408	CA	GLN	24	8.111	-7.042	5.849	1.00	0.00
ATOM	414	C	GLN	24	8.875	-8.181	6.520	1.00	0.00
ATOM	415	O	GLN	24	10.045	-8.416	6.218	1.00	0.00
ATOM	409	CB	GLN	24	8.171	-5.801	6.743	1.00	0.00
ATOM	410	CG	GLN	24	8.618	-4.535	6.027	1.00	0.00
ATOM	411	CD	GLN	24	8.782	-3.364	6.978	1.00	0.00
ATOM	412	OE1	GLN	24	7.964	-3.154	7.875	1.00	0.00
ATOM	413	NE2	GLN	24	9.844	-2.593	6.792	1.00	0.00
ATOM	416	H	GLN	24	6.042	-7.163	6.268	1.00	0.00
ATOM	417	HA	GLN	24	8.569	-6.819	4.898	1.00	0.00
ATOM	418	1HB	GLN	24	8.860	-5.992	7.553	1.00	0.00
ATOM	419	2HB	GLN	24	7.189	-5.624	7.155	1.00	0.00
ATOM	420	1HG	GLN	24	7.880	-4.276	5.283	1.00	0.00
ATOM	421	2HG	GLN	24	9.566	-4.724	5.544	1.00	0.00
ATOM	422	1HE2	GLN	24	10.456	-2.816	6.060	1.00	0.00
ATOM	423	2HE2	GLN	24	9.979	-1.832	7.402	1.00	0.00
ATOM	424	N	LYS	25	8.215	-8.879	7.440	1.00	0.00
ATOM	425	CA	LYS	25	8.855	-9.976	8.157	1.00	0.00
ATOM	431	C	LYS	25	7.850	-11.051	8.565	1.00	0.00
ATOM	432	O	LYS	25	7.415	-11.103	9.718	1.00	0.00
ATOM	426	CB	LYS	25	9.576	-9.440	9.403	1.00	0.00
ATOM	427	CG	LYS	25	10.571	-10.420	10.010	1.00	0.00
ATOM	428	CD	LYS	25	10.186	-10.795	11.433	1.00	0.00
ATOM	429	CE	LYS	25	11.367	-10.673	12.383	1.00	0.00
ATOM	430	NZ	LYS	25	11.093	-11.317	13.695	1.00	0.00
ATOM	433	H	LYS	25	7.282	-8.645	7.650	1.00	0.00
ATOM	434	HA	LYS	25	9.585	-10.418	7.498	1.00	0.00
ATOM	435	1HB	LYS	25	8.838	-9.200	10.155	1.00	0.00
ATOM	436	2HB	LYS	25	10.109	-8.541	9.135	1.00	0.00
ATOM	437	1HG	LYS	25	11.550	-9.964	10.020	1.00	0.00
ATOM	438	2HG	LYS	25	10.594	-11.315	9.407	1.00	0.00
ATOM	439	1HD	LYS	25	9.832	-11.815	11.442	1.00	0.00
ATOM	440	2HD	LYS	25	9.399	-10.136	11.768	1.00	0.00
ATOM	441	1HE	LYS	25	11.576	-9.625	12.542	1.00	0.00



ATOM	442	2HE	LYS	25	12.226	-11.146	11.931	1.00	0.00
ATOM	443	1HZ	LYS	25	11.534	-12.264	13.733	1.00	0.00
ATOM	444	2HZ	LYS	25	10.072	-11.421	13.839	1.00	0.00
ATOM	445	3HZ	LYS	25	11.484	-10.738	14.470	1.00	0.00
ATOM	446	N	GLY	26	7.489	-11.913	7.625	1.00	0.00
ATOM	447	CA	GLY	26	6.555	-12.977	7.930	1.00	0.00
ATOM	448	C	GLY	26	5.705	-13.371	6.745	1.00	0.00
ATOM	449	O	GLY	26	5.817	-14.478	6.226	1.00	0.00
ATOM	450	H	GLY	26	7.863	-11.830	6.723	1.00	0.00
ATOM	451	1HA	GLY	26	5.907	-12.651	8.729	1.00	0.00
ATOM	452	2HA	GLY	26	7.107	-13.841	8.262	1.00	0.00
ATOM	453	N	TYR	27	4.859	-12.460	6.317	1.00	0.00
ATOM	454	CA	TYR	27	3.981	-12.703	5.187	1.00	0.00
ATOM	463	C	TYR	27	4.589	-12.131	3.911	1.00	0.00
ATOM	464	O	TYR	27	3.970	-11.328	3.211	1.00	0.00
ATOM	455	CB	TYR	27	2.597	-12.098	5.455	1.00	0.00
ATOM	456	CG	TYR	27	1.471	-12.788	4.710	1.00	0.00
ATOM	457	CD1	TYR	27	1.502	-14.158	4.474	1.00	0.00
ATOM	458	CD2	TYR	27	0.378	-12.067	4.246	1.00	0.00
ATOM	459	CE1	TYR	27	0.476	-14.789	3.797	1.00	0.00
ATOM	460	CE2	TYR	27	-0.652	-12.692	3.568	1.00	0.00
ATOM	461	CZ	TYR	27	-0.598	-14.052	3.346	1.00	0.00
ATOM	462	OH	TYR	27	-1.621	-14.675	2.669	1.00	0.00
ATOM	465	H	TYR	27	4.828	-11.587	6.771	1.00	0.00
ATOM	466	HA	TYR	27	3.880	-13.772	5.073	1.00	0.00
ATOM	467	1HB	TYR	27	2.601	-11.058	5.166	1.00	0.00
ATOM	468	2HB	TYR	27	2.382	-12.170	6.510	1.00	0.00
ATOM	469	HD1	TYR	27	2.345	-14.732	4.829	1.00	0.00
ATOM	470	HD2	TYR	27	0.339	-11.002	4.420	1.00	0.00
ATOM	471	HE1	TYR	27	0.519	-15.855	3.624	1.00	0.00
ATOM	472	HE2	TYR	27	-1.493	-12.115	3.214	1.00	0.00
ATOM	473	HH	TYR	27	-1.491	-15.633	2.691	1.00	0.00
ATOM	474	N	VAL	28	5.809	-12.559	3.612	1.00	0.00
ATOM	475	CA	VAL	28	6.506	-12.095	2.420	1.00	0.00
ATOM	479	C	VAL	28	5.987	-12.837	1.190	1.00	0.00
ATOM	480	O	VAL	28	5.992	-12.305	0.079	1.00	0.00
ATOM	476	CB	VAL	28	8.041	-12.268	2.553	1.00	0.00
ATOM	477	CG1	VAL	28	8.441	-13.736	2.540	1.00	0.00
ATOM	478	CG2	VAL	28	8.767	-11.503	1.454	1.00	0.00
ATOM	481	H	VAL	28	6.250	-13.202	4.208	1.00	0.00
ATOM	482	HA	VAL	28	6.292	-11.042	2.304	1.00	0.00
ATOM	483	HB	VAL	28	8.343	-11.852	3.503	1.00	0.00
ATOM	484	1HG1	VAL	28	7.592	-14.337	2.249	1.00	0.00
ATOM	485	2HG1	VAL	28	8.767	-14.030	3.526	1.00	0.00
ATOM	486	3HG1	VAL	28	9.245	-13.884	1.835	1.00	0.00
ATOM	487	1HG2	VAL	28	8.605	-10.444	1.584	1.00	0.00
ATOM	488	2HG2	VAL	28	8.388	-11.810	0.490	1.00	0.00
ATOM	489	3HG2	VAL	28	9.825	-11.715	1.508	1.00	0.00
ATOM	490	N	CYS	29	5.509	-14.055	1.409	1.00	0.00
ATOM	491	CA	CYS	29	4.953	-14.865	0.338	1.00	0.00
ATOM	494	C	CYS	29	3.646	-14.245	-0.130	1.00	0.00
ATOM	495	O	CYS	29	3.368	-14.162	-1.325	1.00	0.00
ATOM	492	CB	CYS	29	4.718	-16.288	0.840	1.00	0.00
ATOM	493	SG	CYS	29	5.056	-16.495	2.605	1.00	0.00
ATOM	496	H	CYS	29	5.511	-14.412	2.321	1.00	0.00
ATOM	497	HA	CYS	29	5.657	-14.880	-0.480	1.00	0.00
ATOM	498	1HB	CYS	29	5.361	-16.963	0.298	1.00	0.00
ATOM	499	2HB	CYS	29	3.688	-16.560	0.666	1.00	0.00
ATOM	500	HG	CYS	29	4.772	-17.753	2.933	1.00	0.00
ATOM	501	N	GLY	30	2.864	-13.784	0.833	1.00	0.00
ATOM	502	CA	GLY	30	1.604	-13.146	0.532	1.00	0.00
ATOM	503	C	GLY	30	1.766	-11.658	0.317	1.00	0.00
ATOM	504	O	GLY	30	1.157	-10.846	1.015	1.00	0.00
ATOM	505	H	GLY	30	3.158	-13.864	1.764	1.00	0.00
ATOM	506	1HA	GLY	30	0.926	-13.306	1.352	1.00	0.00
ATOM	507	2HA	GLY	30	1.186	-13.588	-0.360	1.00	0.00
ATOM	508	N	ALA	31	2.592	-11.306	-0.654	1.00	0.00
ATOM	509	CA	ALA	31	2.842	-9.912	-0.982	1.00	0.00
ATOM	511	C	ALA	31	1.583	-9.284	-1.557	1.00	0.00
ATOM	512	O	ALA	31	1.080	-9.726	-2.590	1.00	0.00
ATOM	510	CB	ALA	31	4.000	-9.795	-1.965	1.00	0.00
ATOM	513	H	ALA	31	3.040	-12.009	-1.168	1.00	0.00
ATOM	514	HA	ALA	31	3.112	-9.394	-0.073	1.00	0.00



ATOM	515	1HB	ALA	31	4.925	-10.031	-1.460	1.00	0.00
ATOM	516	2HB	ALA	31	4.046	-8.787	-2.351	1.00	0.00
ATOM	517	3HB	ALA	31	3.848	-10.486	-2.782	1.00	0.00
ATOM	518	N	GLY	32	1.059	-8.271	-0.878	1.00	0.00
ATOM	519	CA	GLY	32	-0.156	-7.635	-1.350	1.00	0.00
ATOM	520	C	GLY	32	-0.718	-6.615	-0.377	1.00	0.00
ATOM	521	O	GLY	32	-0.949	-5.471	-0.759	1.00	0.00
ATOM	522	H	GLY	32	1.489	-7.962	-0.048	1.00	0.00
ATOM	523	1HA	GLY	32	-0.901	-8.398	-1.525	1.00	0.00
ATOM	524	2HA	GLY	32	0.055	-7.137	-2.284	1.00	0.00
ATOM	525	N	PRO	33	-0.962	-6.987	0.896	1.00	0.00
ATOM	526	CA	PRO	33	-1.509	-6.054	1.885	1.00	0.00
ATOM	530	C	PRO	33	-0.580	-4.868	2.088	1.00	0.00
ATOM	531	O	PRO	33	-1.002	-3.716	2.069	1.00	0.00
ATOM	527	CB	PRO	33	-1.611	-6.899	3.162	1.00	0.00
ATOM	528	CG	PRO	33	-1.619	-8.309	2.688	1.00	0.00
ATOM	529	CD	PRO	33	-0.736	-8.321	1.476	1.00	0.00
ATOM	532	HA	PRO	33	-2.489	-5.701	1.598	1.00	0.00
ATOM	533	1HB	PRO	33	-2.519	-6.654	3.688	1.00	0.00
ATOM	534	2HB	PRO	33	-0.758	-6.703	3.794	1.00	0.00
ATOM	535	1HG	PRO	33	-2.625	-8.608	2.427	1.00	0.00
ATOM	536	2HG	PRO	33	-1.219	-8.957	3.454	1.00	0.00
ATOM	537	1HD	PRO	33	-1.032	-9.096	0.790	1.00	0.00
ATOM	538	2HD	PRO	33	0.297	-8.446	1.765	1.00	0.00
ATOM	539	N	GLY	34	0.697	-5.171	2.252	1.00	0.00
ATOM	540	CA	GLY	34	1.693	-4.139	2.431	1.00	0.00
ATOM	541	C	GLY	34	2.415	-3.810	1.141	1.00	0.00
ATOM	542	O	GLY	34	3.618	-3.554	1.148	1.00	0.00
ATOM	543	H	GLY	34	0.966	-6.110	2.239	1.00	0.00
ATOM	544	1HA	GLY	34	2.418	-4.479	3.156	1.00	0.00
ATOM	545	2HA	GLY	34	1.218	-3.247	2.808	1.00	0.00
ATOM	546	N	GLU	35	1.691	-3.833	0.026	1.00	0.00
ATOM	547	CA	GLU	35	2.294	-3.536	-1.270	1.00	0.00
ATOM	553	C	GLU	35	2.382	-2.026	-1.487	1.00	0.00
ATOM	554	O	GLU	35	3.150	-1.550	-2.326	1.00	0.00
ATOM	548	CB	GLU	35	1.506	-4.201	-2.405	1.00	0.00
ATOM	549	CG	GLU	35	0.254	-3.442	-2.826	1.00	0.00
ATOM	550	CD	GLU	35	0.362	-2.848	-4.219	1.00	0.00
ATOM	551	OE1	GLU	35	1.340	-3.159	-4.933	1.00	0.00
ATOM	552	OE2	GLU	35	-0.532	-2.064	-4.600	1.00	0.00
ATOM	555	H	GLU	35	0.736	-4.060	0.075	1.00	0.00
ATOM	556	HA	GLU	35	3.294	-3.943	-1.257	1.00	0.00
ATOM	557	1HB	GLU	35	1.209	-5.188	-2.084	1.00	0.00
ATOM	558	2HB	GLU	35	2.151	-4.292	-3.265	1.00	0.00
ATOM	559	1HG	GLU	35	0.081	-2.641	-2.122	1.00	0.00
ATOM	560	2HG	GLU	35	-0.583	-4.122	-2.808	1.00	0.00
ATOM	561	N	GLY	36	1.602	-1.282	-0.714	1.00	0.00
ATOM	562	CA	GLY	36	1.608	0.163	-0.816	1.00	0.00
ATOM	563	C	GLY	36	2.097	0.801	0.466	1.00	0.00
ATOM	564	O	GLY	36	1.790	0.315	1.552	1.00	0.00
ATOM	565	H	GLY	36	1.023	-1.718	-0.056	1.00	0.00
ATOM	566	1HA	GLY	36	0.605	0.509	-1.022	1.00	0.00
ATOM	567	2HA	GLY	36	2.257	0.456	-1.627	1.00	0.00
ATOM	568	N	PRO	37	2.890	1.874	0.375	1.00	0.00
ATOM	569	CA	PRO	37	3.439	2.552	1.536	1.00	0.00
ATOM	573	C	PRO	37	2.594	3.744	1.997	1.00	0.00
ATOM	574	O	PRO	37	1.359	3.710	1.969	1.00	0.00
ATOM	570	CB	PRO	37	4.794	3.018	1.007	1.00	0.00
ATOM	571	CG	PRO	37	4.578	3.275	-0.454	1.00	0.00
ATOM	572	CD	PRO	37	3.345	2.501	-0.873	1.00	0.00
ATOM	575	HA	PRO	37	3.587	1.872	2.359	1.00	0.00
ATOM	576	1HB	PRO	37	5.530	2.244	1.164	1.00	0.00
ATOM	577	2HB	PRO	37	5.093	3.917	1.526	1.00	0.00
ATOM	578	1HG	PRO	37	5.438	2.933	-1.011	1.00	0.00
ATOM	579	2HG	PRO	37	4.425	4.331	-0.618	1.00	0.00
ATOM	580	1HD	PRO	37	3.602	1.753	-1.607	1.00	0.00
ATOM	581	2HD	PRO	37	2.593	3.170	-1.263	1.00	0.00
ATOM	582	N	ALA	38	3.275	4.800	2.424	1.00	0.00
ATOM	583	CA	ALA	38	2.620	6.008	2.900	1.00	0.00
ATOM	585	C	ALA	38	2.080	6.841	1.741	1.00	0.00
ATOM	586	O	ALA	38	2.755	7.742	1.243	1.00	0.00
ATOM	584	CB	ALA	38	3.597	6.824	3.729	1.00	0.00
ATOM	587	H	ALA	38	4.255	4.766	2.421	1.00	0.00



ATOM	588	HA	ALA	38	1.798	5.718	3.538	1.00	0.00
ATOM	589	1HB	ALA	38	4.302	6.162	4.209	1.00	0.00
ATOM	590	2HB	ALA	38	3.055	7.380	4.480	1.00	0.00
ATOM	591	3HB	ALA	38	4.128	7.513	3.086	1.00	0.00
ATOM	592	N	ALA	39	0.861	6.536	1.314	1.00	0.00
ATOM	593	CA	ALA	39	0.233	7.257	0.214	1.00	0.00
ATOM	595	C	ALA	39	-1.194	7.648	0.578	1.00	0.00
ATOM	596	O	ALA	39	-2.020	7.919	-0.293	1.00	0.00
ATOM	594	CB	ALA	39	0.248	6.411	-1.050	1.00	0.00
ATOM	597	H	ALA	39	0.371	5.803	1.744	1.00	0.00
ATOM	598	HA	ALA	39	0.807	8.154	0.029	1.00	0.00
ATOM	599	1HB	ALA	39	0.705	6.970	-1.852	1.00	0.00
ATOM	600	2HB	ALA	39	-0.765	6.152	-1.323	1.00	0.00
ATOM	601	3HB	ALA	39	0.814	5.508	-0.872	1.00	0.00
ATOM	602	N	ASP	40	-1.470	7.680	1.875	1.00	0.00
ATOM	603	CA	ASP	40	-2.789	8.032	2.376	1.00	0.00
ATOM	608	C	ASP	40	-2.664	9.068	3.483	1.00	0.00
ATOM	609	O	ASP	40	-1.595	9.214	4.083	1.00	0.00
ATOM	604	CB	ASP	40	-3.510	6.798	2.917	1.00	0.00
ATOM	605	CG	ASP	40	-4.012	5.881	1.824	1.00	0.00
ATOM	606	OD1	ASP	40	-3.218	5.056	1.329	1.00	0.00
ATOM	607	OD2	ASP	40	-5.201	5.978	1.467	1.00	0.00
ATOM	610	H	ASP	40	-0.769	7.462	2.513	1.00	0.00
ATOM	611	HA	ASP	40	-3.358	8.451	1.560	1.00	0.00
ATOM	612	1HB	ASP	40	-4.357	7.124	3.503	1.00	0.00
ATOM	613	2HB	ASP	40	-2.835	6.239	3.548	1.00	0.00
ATOM	614	N	PRO	41	-3.760	9.773	3.793	1.00	0.00
ATOM	615	CA	PRO	41	-3.789	10.787	4.842	1.00	0.00
ATOM	619	C	PRO	41	-3.958	10.170	6.228	1.00	0.00
ATOM	620	O	PRO	41	-4.753	10.633	7.043	1.00	0.00
ATOM	616	CB	PRO	41	-4.998	11.645	4.466	1.00	0.00
ATOM	617	CG	PRO	41	-5.906	10.747	3.686	1.00	0.00
ATOM	618	CD	PRO	41	-5.072	9.609	3.150	1.00	0.00
ATOM	621	HA	PRO	41	-2.895	11.393	4.827	1.00	0.00
ATOM	622	1HB	PRO	41	-4.671	12.483	3.872	1.00	0.00
ATOM	623	2HB	PRO	41	-5.476	12.002	5.366	1.00	0.00
ATOM	624	1HG	PRO	41	-6.346	11.300	2.868	1.00	0.00
ATOM	625	2HG	PRO	41	-6.681	10.363	4.333	1.00	0.00
ATOM	626	1HD	PRO	41	-4.978	9.672	2.078	1.00	0.00
ATOM	627	2HD	PRO	41	-5.509	8.663	3.428	1.00	0.00
ATOM	628	N	LEU	42	-3.189	9.118	6.474	1.00	0.00
ATOM	629	CA	LEU	42	-3.203	8.398	7.744	1.00	0.00
ATOM	634	C	LEU	42	-2.106	7.345	7.732	1.00	0.00
ATOM	635	O	LEU	42	-1.537	7.009	8.766	1.00	0.00
ATOM	630	CB	LEU	42	-4.561	7.723	8.010	1.00	0.00
ATOM	631	CG	LEU	42	-5.424	7.442	6.770	1.00	0.00
ATOM	632	CD1	LEU	42	-5.287	5.993	6.333	1.00	0.00
ATOM	633	CD2	LEU	42	-6.880	7.776	7.053	1.00	0.00
ATOM	636	H	LEU	42	-2.578	8.820	5.771	1.00	0.00
ATOM	637	HA	LEU	42	-2.993	9.110	8.531	1.00	0.00
ATOM	638	1HB	LEU	42	-5.127	8.358	8.677	1.00	0.00
ATOM	639	2HB	LEU	42	-4.376	6.785	8.511	1.00	0.00
ATOM	640	HG	LEU	42	-5.088	8.069	5.957	1.00	0.00
ATOM	641	1HD1	LEU	42	-6.054	5.761	5.609	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.394	5.345	7.190	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.315	5.842	5.886	1.00	0.00
ATOM	644	1HD2	LEU	42	-6.971	8.165	8.057	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.480	6.883	6.958	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.223	8.518	6.347	1.00	0.00
ATOM	647	N	HIS	43	-1.816	6.838	6.536	1.00	0.00
ATOM	648	CA	HIS	43	-0.782	5.824	6.344	1.00	0.00
ATOM	655	C	HIS	43	0.565	6.323	6.847	1.00	0.00
ATOM	656	O	HIS	43	1.191	5.703	7.705	1.00	0.00
ATOM	649	CB	HIS	43	-0.646	5.498	4.861	1.00	0.00
ATOM	650	CG	HIS	43	-1.503	4.366	4.365	1.00	0.00
ATOM	651	ND1	HIS	43	-1.153	3.585	3.284	1.00	0.00
ATOM	652	CD2	HIS	43	-2.726	3.924	4.763	1.00	0.00
ATOM	653	CE1	HIS	43	-2.119	2.725	3.032	1.00	0.00
ATOM	654	NE2	HIS	43	-3.087	2.906	3.914	1.00	0.00
ATOM	657	H	HIS	43	-2.312	7.157	5.758	1.00	0.00
ATOM	658	HA	HIS	43	-1.063	4.936	6.889	1.00	0.00
ATOM	659	1HB	HIS	43	0.383	5.253	4.666	1.00	0.00
ATOM	660	2HB	HIS	43	-0.907	6.377	4.291	1.00	0.00



ATOM	661	HD1	HIS	43	-0.300	3.626	2.794	1.00	0.00
ATOM	662	HD2	HIS	43	-3.310	4.304	5.593	1.00	0.00
ATOM	663	HE1	HIS	43	-2.120	1.994	2.237	1.00	0.00
ATOM	664	HE2	HIS	43	-3.800	2.258	4.092	1.00	0.00
ATOM	665	N	GLN	44	1.000	7.457	6.295	1.00	0.00
ATOM	666	CA	GLN	44	2.277	8.068	6.668	1.00	0.00
ATOM	672	C	GLN	44	2.313	8.381	8.155	1.00	0.00
ATOM	673	O	GLN	44	3.376	8.420	8.768	1.00	0.00
ATOM	667	CB	GLN	44	2.502	9.357	5.868	1.00	0.00
ATOM	668	CG	GLN	44	3.936	9.868	5.914	1.00	0.00
ATOM	669	CD	GLN	44	4.041	11.353	5.610	1.00	0.00
ATOM	670	OE1	GLN	44	3.168	12.141	5.979	1.00	0.00
ATOM	671	NE2	GLN	44	5.112	11.743	4.936	1.00	0.00
ATOM	674	H	GLN	44	0.448	7.895	5.615	1.00	0.00
ATOM	675	HA	GLN	44	3.064	7.366	6.436	1.00	0.00
ATOM	676	1HB	GLN	44	1.855	10.128	6.261	1.00	0.00
ATOM	677	2HB	GLN	44	2.242	9.175	4.835	1.00	0.00
ATOM	678	1HG	GLN	44	4.520	9.324	5.186	1.00	0.00
ATOM	679	2HG	GLN	44	4.337	9.691	6.901	1.00	0.00
ATOM	680	1HE2	GLN	44	5.771	11.066	4.676	1.00	0.00
ATOM	681	2HE2	GLN	44	5.204	12.704	4.718	1.00	0.00
ATOM	682	N	ALA	45	1.141	8.594	8.722	1.00	0.00
ATOM	683	CA	ALA	45	1.032	8.906	10.137	1.00	0.00
ATOM	685	C	ALA	45	1.264	7.673	10.996	1.00	0.00
ATOM	686	O	ALA	45	2.062	7.699	11.932	1.00	0.00
ATOM	684	CB	ALA	45	-0.328	9.509	10.438	1.00	0.00
ATOM	687	H	ALA	45	0.327	8.530	8.175	1.00	0.00
ATOM	688	HA	ALA	45	1.785	9.643	10.373	1.00	0.00
ATOM	689	1HB	ALA	45	-0.811	8.939	11.217	1.00	0.00
ATOM	690	2HB	ALA	45	-0.938	9.488	9.546	1.00	0.00
ATOM	691	3HB	ALA	45	-0.205	10.532	10.764	1.00	0.00
ATOM	692	N	MET	46	0.560	6.594	10.681	1.00	0.00
ATOM	693	CA	MET	46	0.687	5.359	11.442	1.00	0.00
ATOM	698	C	MET	46	2.061	4.733	11.268	1.00	0.00
ATOM	699	O	MET	46	2.650	4.237	12.230	1.00	0.00
ATOM	694	CB	MET	46	-0.387	4.362	11.026	1.00	0.00
ATOM	695	CG	MET	46	-0.915	3.539	12.183	1.00	0.00
ATOM	696	SD	MET	46	-2.447	2.695	11.782	1.00	0.00
ATOM	697	CE	MET	46	-3.610	3.717	12.670	1.00	0.00
ATOM	700	H	MET	46	-0.071	6.629	9.920	1.00	0.00
ATOM	701	HA	MET	46	0.550	5.603	12.485	1.00	0.00
ATOM	702	1HB	MET	46	0.029	3.688	10.291	1.00	0.00
ATOM	703	2HB	MET	46	-1.213	4.900	10.584	1.00	0.00
ATOM	704	1HG	MET	46	-1.091	4.194	13.021	1.00	0.00
ATOM	705	2HG	MET	46	-0.177	2.804	12.452	1.00	0.00
ATOM	706	1HE	MET	46	-4.553	3.198	12.753	1.00	0.00
ATOM	707	2HE	MET	46	-3.756	4.645	12.136	1.00	0.00
ATOM	708	3HE	MET	46	-3.226	3.924	13.657	1.00	0.00
ATOM	709	N	ARG	47	2.561	4.745	10.040	1.00	0.00
ATOM	710	CA	ARG	47	3.860	4.162	9.737	1.00	0.00
ATOM	718	C	ARG	47	4.988	4.878	10.476	1.00	0.00
ATOM	719	O	ARG	47	5.968	4.249	10.875	1.00	0.00
ATOM	711	CB	ARG	47	4.122	4.194	8.228	1.00	0.00
ATOM	712	CG	ARG	47	3.898	2.853	7.536	1.00	0.00
ATOM	713	CD	ARG	47	4.910	1.802	7.983	1.00	0.00
ATOM	714	NE	ARG	47	6.237	2.374	8.218	1.00	0.00
ATOM	715	CZ	ARG	47	7.170	1.816	8.989	1.00	0.00
ATOM	716	NH1	ARG	47	6.955	0.638	9.563	1.00	0.00
ATOM	717	NH2	ARG	47	8.325	2.439	9.173	1.00	0.00
ATOM	720	H	ARG	47	2.033	5.148	9.313	1.00	0.00
ATOM	721	HA	ARG	47	3.839	3.132	10.061	1.00	0.00
ATOM	722	1HB	ARG	47	5.145	4.495	8.061	1.00	0.00
ATOM	723	2HB	ARG	47	3.463	4.922	7.778	1.00	0.00
ATOM	724	1HG	ARG	47	3.987	2.993	6.468	1.00	0.00
ATOM	725	2HG	ARG	47	2.905	2.499	7.771	1.00	0.00
ATOM	726	1HD	ARG	47	4.986	1.044	7.216	1.00	0.00
ATOM	727	2HD	ARG	47	4.559	1.351	8.899	1.00	0.00
ATOM	728	HE	ARG	47	6.439	3.242	7.786	1.00	0.00
ATOM	729	1HH1	ARG	47	6.091	0.159	9.425	1.00	0.00
ATOM	730	2HH1	ARG	47	7.674	0.219	10.142	1.00	0.00
ATOM	731	1HH2	ARG	47	8.495	3.322	8.730	1.00	0.00
ATOM	732	2HH2	ARG	47	9.030	2.040	9.778	1.00	0.00
ATOM	733	N	ALA	48	4.847	6.184	10.673	1.00	0.00



ATOM	734	CA	ALA	48	5.873	6.948	11.372	1.00	0.00
ATOM	736	C	ALA	48	5.746	6.749	12.869	1.00	0.00
ATOM	737	O	ALA	48	6.744	6.574	13.568	1.00	0.00
ATOM	735	CB	ALA	48	5.788	8.421	11.016	1.00	0.00
ATOM	738	H	ALA	48	4.037	6.641	10.353	1.00	0.00
ATOM	739	HA	ALA	48	6.840	6.575	11.055	1.00	0.00
ATOM	740	1HB	ALA	48	5.863	9.014	11.916	1.00	0.00
ATOM	741	2HB	ALA	48	4.846	8.620	10.530	1.00	0.00
ATOM	742	3HB	ALA	48	6.599	8.677	10.349	1.00	0.00
ATOM	743	N	ALA	49	4.511	6.758	13.351	1.00	0.00
ATOM	744	CA	ALA	49	4.253	6.556	14.763	1.00	0.00
ATOM	746	C	ALA	49	4.768	5.192	15.186	1.00	0.00
ATOM	747	O	ALA	49	5.577	5.083	16.105	1.00	0.00
ATOM	745	CB	ALA	49	2.769	6.683	15.052	1.00	0.00
ATOM	748	H	ALA	49	3.755	6.889	12.737	1.00	0.00
ATOM	749	HA	ALA	49	4.778	7.322	15.317	1.00	0.00
ATOM	750	1HB	ALA	49	2.601	7.509	15.729	1.00	0.00
ATOM	751	2HB	ALA	49	2.413	5.770	15.504	1.00	0.00
ATOM	752	3HB	ALA	49	2.235	6.861	14.129	1.00	0.00
ATOM	753	N	GLY	50	4.292	4.156	14.494	1.00	0.00
ATOM	754	CA	GLY	50	4.707	2.796	14.784	1.00	0.00
ATOM	755	C	GLY	50	6.213	2.635	14.804	1.00	0.00
ATOM	756	O	GLY	50	6.751	2.031	15.716	1.00	0.00
ATOM	757	H	GLY	50	3.642	4.319	13.775	1.00	0.00
ATOM	758	1HA	GLY	50	4.294	2.139	14.032	1.00	0.00
ATOM	759	2HA	GLY	50	4.314	2.511	15.748	1.00	0.00
ATOM	760	N	ASP	51	6.884	3.181	13.800	1.00	0.00
ATOM	761	CA	ASP	51	8.343	3.104	13.693	1.00	0.00
ATOM	766	C	ASP	51	9.028	3.722	14.913	1.00	0.00
ATOM	767	O	ASP	51	9.915	3.112	15.523	1.00	0.00
ATOM	762	CB	ASP	51	8.793	3.811	12.413	1.00	0.00
ATOM	763	CG	ASP	51	10.075	3.239	11.843	1.00	0.00
ATOM	764	OD1	ASP	51	10.052	2.087	11.352	1.00	0.00
ATOM	765	OD2	ASP	51	11.098	3.950	11.857	1.00	0.00
ATOM	768	H	ASP	51	6.389	3.649	13.104	1.00	0.00
ATOM	769	HA	ASP	51	8.617	2.062	13.634	1.00	0.00
ATOM	770	1HB	ASP	51	8.946	4.862	12.622	1.00	0.00
ATOM	771	2HB	ASP	51	8.017	3.712	11.667	1.00	0.00
ATOM	772	N	GLU	52	8.606	4.926	15.278	1.00	0.00
ATOM	773	CA	GLU	52	9.167	5.622	16.430	1.00	0.00
ATOM	779	C	GLU	52	8.843	4.863	17.716	1.00	0.00
ATOM	780	O	GLU	52	9.713	4.632	18.564	1.00	0.00
ATOM	774	CB	GLU	52	8.608	7.045	16.493	1.00	0.00
ATOM	775	CG	GLU	52	9.286	7.934	17.522	1.00	0.00
ATOM	776	CD	GLU	52	10.795	7.973	17.377	1.00	0.00
ATOM	777	OE1	GLU	52	11.296	7.890	16.236	1.00	0.00
ATOM	778	OE2	GLU	52	11.485	8.096	18.413	1.00	0.00
ATOM	781	H	GLU	52	7.889	5.358	14.760	1.00	0.00
ATOM	782	HA	GLU	52	10.238	5.666	16.307	1.00	0.00
ATOM	783	1HB	GLU	52	7.556	6.993	16.735	1.00	0.00
ATOM	784	2HB	GLU	52	8.719	7.505	15.524	1.00	0.00
ATOM	785	1HG	GLU	52	9.044	7.564	18.508	1.00	0.00
ATOM	786	2HG	GLU	52	8.906	8.939	17.414	1.00	0.00
ATOM	787	N	PHE	53	7.588	4.459	17.843	1.00	0.00
ATOM	788	CA	PHE	53	7.130	3.713	19.004	1.00	0.00
ATOM	796	C	PHE	53	7.842	2.370	19.094	1.00	0.00
ATOM	797	O	PHE	53	8.220	1.943	20.174	1.00	0.00
ATOM	789	CB	PHE	53	5.623	3.500	18.927	1.00	0.00
ATOM	790	CG	PHE	53	5.040	2.792	20.116	1.00	0.00
ATOM	791	CD1	PHE	53	5.170	3.320	21.389	1.00	0.00
ATOM	792	CD2	PHE	53	4.353	1.600	19.956	1.00	0.00
ATOM	793	CE1	PHE	53	4.627	2.672	22.480	1.00	0.00
ATOM	794	CE2	PHE	53	3.809	0.949	21.042	1.00	0.00
ATOM	795	CZ	PHE	53	3.946	1.486	22.307	1.00	0.00
ATOM	798	H	PHE	53	6.945	4.666	17.123	1.00	0.00
ATOM	799	HA	PHE	53	7.360	4.293	19.886	1.00	0.00
ATOM	800	1HB	PHE	53	5.397	2.913	18.048	1.00	0.00
ATOM	801	2HB	PHE	53	5.136	4.459	18.845	1.00	0.00
ATOM	802	HD1	PHE	53	4.247	1.178	18.967	1.00	0.00
ATOM	803	HD2	PHE	53	5.705	4.249	21.527	1.00	0.00
ATOM	804	HE1	PHE	53	3.275	0.020	20.905	1.00	0.00
ATOM	805	HE2	PHE	53	4.735	3.093	23.469	1.00	0.00
ATOM	806	HZ	PHE	53	3.519	0.977	23.159	1.00	0.00



ATOM	807	N	GLU	54	8.026	1.722	17.950	1.00	0.00
ATOM	808	CA	GLU	54	8.700	0.429	17.875	1.00	0.00
ATOM	814	C	GLU	54	10.119	0.548	18.425	1.00	0.00
ATOM	815	O	GLU	54	10.650	-0.381	19.032	1.00	0.00
ATOM	809	CB	GLU	54	8.713	-0.060	16.419	1.00	0.00
ATOM	810	CG	GLU	54	9.615	-1.260	16.173	1.00	0.00
ATOM	811	CD	GLU	54	8.950	-2.335	15.337	1.00	0.00
ATOM	812	OE1	GLU	54	7.700	-2.369	15.271	1.00	0.00
ATOM	813	OE2	GLU	54	9.673	-3.158	14.733	1.00	0.00
ATOM	816	H	GLU	54	7.696	2.130	17.114	1.00	0.00
ATOM	817	HA	GLU	54	8.146	-0.273	18.481	1.00	0.00
ATOM	818	1HB	GLU	54	9.040	0.751	15.779	1.00	0.00
ATOM	819	2HB	GLU	54	7.706	-0.334	16.138	1.00	0.00
ATOM	820	1HG	GLU	54	9.891	-1.684	17.127	1.00	0.00
ATOM	821	2HG	GLU	54	10.503	-0.925	15.661	1.00	0.00
ATOM	822	N	THR	55	10.714	1.713	18.221	1.00	0.00
ATOM	823	CA	THR	55	12.062	1.981	18.697	1.00	0.00
ATOM	827	C	THR	55	12.071	2.288	20.203	1.00	0.00
ATOM	828	O	THR	55	13.082	2.098	20.878	1.00	0.00
ATOM	824	CB	THR	55	12.684	3.162	17.919	1.00	0.00
ATOM	825	OG1	THR	55	12.557	2.933	16.505	1.00	0.00
ATOM	826	CG2	THR	55	14.151	3.353	18.281	1.00	0.00
ATOM	829	H	THR	55	10.227	2.416	17.735	1.00	0.00
ATOM	830	HA	THR	55	12.661	1.101	18.514	1.00	0.00
ATOM	831	HB	THR	55	12.145	4.063	18.176	1.00	0.00
ATOM	832	HG1	THR	55	11.615	2.884	16.268	1.00	0.00
ATOM	833	1HG2	THR	55	14.410	4.400	18.207	1.00	0.00
ATOM	834	2HG2	THR	55	14.771	2.782	17.604	1.00	0.00
ATOM	835	3HG2	THR	55	14.318	3.013	19.292	1.00	0.00
ATOM	836	N	ARG	56	10.946	2.763	20.730	1.00	0.00
ATOM	837	CA	ARG	56	10.855	3.093	22.154	1.00	0.00
ATOM	845	C	ARG	56	10.189	1.971	22.969	1.00	0.00
ATOM	846	O	ARG	56	10.321	1.923	24.193	1.00	0.00
ATOM	838	CB	ARG	56	10.080	4.402	22.335	1.00	0.00
ATOM	839	CG	ARG	56	10.890	5.648	21.992	1.00	0.00
ATOM	840	CD	ARG	56	10.054	6.916	22.129	1.00	0.00
ATOM	841	NE	ARG	56	10.306	7.869	21.046	1.00	0.00
ATOM	842	CZ	ARG	56	9.928	9.148	21.066	1.00	0.00
ATOM	843	NH1	ARG	56	9.321	9.655	22.133	1.00	0.00
ATOM	844	NH2	ARG	56	10.174	9.926	20.021	1.00	0.00
ATOM	847	H	ARG	56	10.164	2.902	20.149	1.00	0.00
ATOM	848	HA	ARG	56	11.861	3.232	22.521	1.00	0.00
ATOM	849	1HB	ARG	56	9.761	4.479	23.364	1.00	0.00
ATOM	850	2HB	ARG	56	9.210	4.382	21.698	1.00	0.00
ATOM	851	1HG	ARG	56	11.241	5.568	20.975	1.00	0.00
ATOM	852	2HG	ARG	56	11.735	5.713	22.662	1.00	0.00
ATOM	853	1HD	ARG	56	10.288	7.389	23.072	1.00	0.00
ATOM	854	2HD	ARG	56	9.010	6.643	22.117	1.00	0.00
ATOM	855	HE	ARG	56	10.779	7.530	20.243	1.00	0.00
ATOM	856	1HH1	ARG	56	9.143	9.082	22.931	1.00	0.00
ATOM	857	2HH1	ARG	56	9.044	10.620	22.139	1.00	0.00
ATOM	858	1HH2	ARG	56	10.653	9.548	19.215	1.00	0.00
ATOM	859	2HH2	ARG	56	9.868	10.888	20.018	1.00	0.00
ATOM	860	N	PHE	57	9.464	1.087	22.297	1.00	0.00
ATOM	861	CA	PHE	57	8.772	-0.010	22.965	1.00	0.00
ATOM	869	C	PHE	57	9.684	-1.216	23.143	1.00	0.00
ATOM	870	O	PHE	57	9.801	-2.058	22.252	1.00	0.00
ATOM	862	CB	PHE	57	7.522	-0.414	22.179	1.00	0.00
ATOM	863	CG	PHE	57	6.375	-0.857	23.049	1.00	0.00
ATOM	864	CD1	PHE	57	6.232	-0.366	24.338	1.00	0.00
ATOM	865	CD2	PHE	57	5.435	-1.758	22.572	1.00	0.00
ATOM	866	CE1	PHE	57	5.176	-0.767	25.135	1.00	0.00
ATOM	867	CE2	PHE	57	4.375	-2.161	23.365	1.00	0.00
ATOM	868	CZ	PHE	57	4.246	-1.665	24.647	1.00	0.00
ATOM	871	H	PHE	57	9.382	1.177	21.327	1.00	0.00
ATOM	872	HA	PHE	57	8.470	0.341	23.941	1.00	0.00
ATOM	873	1HB	PHE	57	7.771	-1.231	21.516	1.00	0.00
ATOM	874	2HB	PHE	57	7.187	0.428	21.593	1.00	0.00
ATOM	875	HD1	PHE	57	5.535	-2.148	21.571	1.00	0.00
ATOM	876	HD2	PHE	57	6.958	0.335	24.721	1.00	0.00
ATOM	877	HE1	PHE	57	3.649	-2.862	22.981	1.00	0.00
ATOM	878	HE2	PHE	57	5.077	-0.377	26.137	1.00	0.00
ATOM	879	HZ	PHE	57	3.418	-1.978	25.266	1.00	0.00



ATOM	880	N	ARG	58	10.320	-1.286	24.301	1.00	0.00
ATOM	881	CA	ARG	58	11.227	-2.385	24.625	1.00	0.00
ATOM	889	C	ARG	58	10.495	-3.728	24.619	1.00	0.00
ATOM	890	O	ARG	58	10.970	-4.706	24.043	1.00	0.00
ATOM	882	CB	ARG	58	11.864	-2.152	25.995	1.00	0.00
ATOM	883	CG	ARG	58	13.379	-2.266	25.991	1.00	0.00
ATOM	884	CD	ARG	58	13.970	-1.795	27.309	1.00	0.00
ATOM	885	NE	ARG	58	14.582	-0.471	27.195	1.00	0.00
ATOM	886	CZ	ARG	58	14.795	0.353	28.223	1.00	0.00
ATOM	887	NH1	ARG	58	14.452	0.000	29.458	1.00	0.00
ATOM	888	NH2	ARG	58	15.358	1.533	28.001	1.00	0.00
ATOM	891	H	ARG	58	10.179	-0.575	24.956	1.00	0.00
ATOM	892	HA	ARG	58	12.004	-2.407	23.876	1.00	0.00
ATOM	893	1HB	ARG	58	11.471	-2.879	26.691	1.00	0.00
ATOM	894	2HB	ARG	58	11.601	-1.162	26.336	1.00	0.00
ATOM	895	1HG	ARG	58	13.774	-1.657	25.191	1.00	0.00
ATOM	896	2HG	ARG	58	13.653	-3.298	25.832	1.00	0.00
ATOM	897	1HD	ARG	58	14.721	-2.504	27.625	1.00	0.00
ATOM	898	2HD	ARG	58	13.183	-1.754	28.048	1.00	0.00
ATOM	899	HE	ARG	58	14.855	-0.175	26.290	1.00	0.00
ATOM	900	1HH1	ARG	58	14.023	-0.898	29.633	1.00	0.00
ATOM	901	2HH1	ARG	58	14.631	0.620	30.227	1.00	0.00
ATOM	902	1HH2	ARG	58	15.623	1.793	27.063	1.00	0.00
ATOM	903	2HH2	ARG	58	15.514	2.176	28.759	1.00	0.00
ATOM	904	N	ARG	59	9.336	-3.768	25.260	1.00	0.00
ATOM	905	CA	ARG	59	8.543	-4.987	25.322	1.00	0.00
ATOM	913	C	ARG	59	7.560	-5.032	24.159	1.00	0.00
ATOM	914	O	ARG	59	6.424	-4.582	24.277	1.00	0.00
ATOM	906	CB	ARG	59	7.797	-5.073	26.655	1.00	0.00
ATOM	907	CG	ARG	59	8.597	-5.758	27.753	1.00	0.00
ATOM	908	CD	ARG	59	7.849	-6.946	28.339	1.00	0.00
ATOM	909	NE	ARG	59	6.673	-6.532	29.102	1.00	0.00
ATOM	910	CZ	ARG	59	6.713	-6.153	30.381	1.00	0.00
ATOM	911	NH1	ARG	59	7.854	-6.194	31.058	1.00	0.00
ATOM	912	NH2	ARG	59	5.607	-5.751	30.992	1.00	0.00
ATOM	915	H	ARG	59	9.002	-2.959	25.695	1.00	0.00
ATOM	916	HA	ARG	59	9.220	-5.825	25.240	1.00	0.00
ATOM	917	1HB	ARG	59	6.880	-5.626	26.508	1.00	0.00
ATOM	918	2HB	ARG	59	7.555	-4.074	26.984	1.00	0.00
ATOM	919	1HG	ARG	59	8.791	-5.043	28.539	1.00	0.00
ATOM	920	2HG	ARG	59	9.532	-6.104	27.340	1.00	0.00
ATOM	921	1HD	ARG	59	8.516	-7.491	28.990	1.00	0.00
ATOM	922	2HD	ARG	59	7.531	-7.588	27.531	1.00	0.00
ATOM	923	HE	ARG	59	5.809	-6.531	28.627	1.00	0.00
ATOM	924	1HH1	ARG	59	8.694	-6.513	30.616	1.00	0.00
ATOM	925	2HH1	ARG	59	7.879	-5.901	32.022	1.00	0.00
ATOM	926	1HH2	ARG	59	4.735	-5.729	30.498	1.00	0.00
ATOM	927	2HH2	ARG	59	5.639	-5.472	31.956	1.00	0.00
ATOM	928	N	THR	60	8.015	-5.549	23.029	1.00	0.00
ATOM	929	CA	THR	60	7.181	-5.625	21.840	1.00	0.00
ATOM	933	C	THR	60	6.854	-7.070	21.461	1.00	0.00
ATOM	934	O	THR	60	5.688	-7.444	21.347	1.00	0.00
ATOM	930	CB	THR	60	7.873	-4.937	20.649	1.00	0.00
ATOM	931	OG1	THR	60	9.197	-4.528	21.028	1.00	0.00
ATOM	932	CG2	THR	60	7.073	-3.732	20.179	1.00	0.00
ATOM	935	H	THR	60	8.941	-5.868	22.987	1.00	0.00
ATOM	936	HA	THR	60	6.261	-5.098	22.044	1.00	0.00
ATOM	937	HB	THR	60	7.943	-5.645	19.835	1.00	0.00
ATOM	938	HG1	THR	60	9.185	-3.602	21.310	1.00	0.00
ATOM	939	1HG2	THR	60	7.359	-3.483	19.168	1.00	0.00
ATOM	940	2HG2	THR	60	7.272	-2.891	20.827	1.00	0.00
ATOM	941	3HG2	THR	60	6.019	-3.964	20.206	1.00	0.00
ATOM	942	N	PHE	61	7.890	-7.875	21.248	1.00	0.00
ATOM	943	CA	PHE	61	7.714	-9.273	20.854	1.00	0.00
ATOM	951	C	PHE	61	7.652	-10.205	22.062	1.00	0.00
ATOM	952	O	PHE	61	7.534	-11.422	21.916	1.00	0.00
ATOM	944	CB	PHE	61	8.848	-9.703	19.919	1.00	0.00
ATOM	945	CG	PHE	61	8.583	-9.409	18.467	1.00	0.00
ATOM	946	CD1	PHE	61	8.384	-8.107	18.031	1.00	0.00
ATOM	947	CD2	PHE	61	8.529	-10.436	17.539	1.00	0.00
ATOM	948	CE1	PHE	61	8.138	-7.837	16.698	1.00	0.00
ATOM	949	CE2	PHE	61	8.281	-10.173	16.205	1.00	0.00
ATOM	950	CZ	PHE	61	8.086	-8.872	15.784	1.00	0.00



ATOM	953	H	PHE	61	8.804	-7.515	21.341	1.00	0.00
ATOM	954	HA	PHE	61	6.779	-9.347	20.318	1.00	0.00
ATOM	955	1HB	PHE	61	9.000	-10.767	20.018	1.00	0.00
ATOM	956	2HB	PHE	61	9.754	-9.188	20.200	1.00	0.00
ATOM	957	HD1	PHE	61	8.682	-11.454	17.867	1.00	0.00
ATOM	958	HD2	PHE	61	8.426	-7.298	18.745	1.00	0.00
ATOM	959	HE1	PHE	61	8.242	-10.983	15.493	1.00	0.00
ATOM	960	HE2	PHE	61	7.985	-6.819	16.371	1.00	0.00
ATOM	961	HZ	PHE	61	7.892	-8.664	14.744	1.00	0.00
ATOM	962	N	SER	62	7.742	-9.635	23.252	1.00	0.00
ATOM	963	CA	SER	62	7.706	-10.420	24.478	1.00	0.00
ATOM	966	C	SER	62	6.318	-10.997	24.726	1.00	0.00
ATOM	967	O	SER	62	6.150	-12.208	24.880	1.00	0.00
ATOM	964	CB	SER	62	8.112	-9.533	25.651	1.00	0.00
ATOM	965	OG	SER	62	7.618	-8.213	25.465	1.00	0.00
ATOM	968	H	SER	62	7.841	-8.662	23.312	1.00	0.00
ATOM	969	HA	SER	62	8.407	-11.232	24.382	1.00	0.00
ATOM	970	1HB	SER	62	9.189	-9.495	25.721	1.00	0.00
ATOM	971	2HB	SER	62	7.702	-9.934	26.566	1.00	0.00
ATOM	972	HG	SER	62	6.792	-8.106	25.961	1.00	0.00
ATOM	973	N	ASP	63	5.334	-10.115	24.780	1.00	0.00
ATOM	974	CA	ASP	63	3.951	-10.499	25.031	1.00	0.00
ATOM	979	C	ASP	63	3.415	-11.373	23.916	1.00	0.00
ATOM	980	O	ASP	63	2.491	-12.162	24.117	1.00	0.00
ATOM	975	CB	ASP	63	3.086	-9.250	25.196	1.00	0.00
ATOM	976	CG	ASP	63	3.420	-8.469	26.458	1.00	0.00
ATOM	977	OD1	ASP	63	4.605	-8.089	26.631	1.00	0.00
ATOM	978	OD2	ASP	63	2.506	-8.237	27.276	1.00	0.00
ATOM	981	H	ASP	63	5.544	-9.163	24.664	1.00	0.00
ATOM	982	HA	ASP	63	3.927	-11.072	25.943	1.00	0.00
ATOM	983	1HB	ASP	63	2.051	-9.544	25.236	1.00	0.00
ATOM	984	2HB	ASP	63	3.239	-8.602	24.345	1.00	0.00
ATOM	985	N	LEU	64	4.024	-11.251	22.753	1.00	0.00
ATOM	986	CA	LEU	64	3.646	-12.051	21.599	1.00	0.00
ATOM	991	C	LEU	64	3.940	-13.515	21.896	1.00	0.00
ATOM	992	O	LEU	64	3.132	-14.403	21.617	1.00	0.00
ATOM	987	CB	LEU	64	4.447	-11.616	20.371	1.00	0.00
ATOM	988	CG	LEU	64	3.851	-10.482	19.532	1.00	0.00
ATOM	989	CD1	LEU	64	3.135	-9.457	20.403	1.00	0.00
ATOM	990	CD2	LEU	64	4.952	-9.814	18.728	1.00	0.00
ATOM	993	H	LEU	64	4.765	-10.618	22.673	1.00	0.00
ATOM	994	HA	LEU	64	2.590	-11.921	21.412	1.00	0.00
ATOM	995	1HB	LEU	64	4.572	-12.477	19.730	1.00	0.00
ATOM	996	2HB	LEU	64	5.424	-11.301	20.708	1.00	0.00
ATOM	997	HG	LEU	64	3.132	-10.895	18.838	1.00	0.00
ATOM	998	1HD1	LEU	64	3.594	-8.488	20.270	1.00	0.00
ATOM	999	2HD1	LEU	64	3.210	-9.749	21.441	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.094	-9.404	20.120	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.680	-10.554	18.428	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.434	-9.062	19.335	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.529	-9.350	17.849	1.00	0.00
ATOM	1004	N	ALA	65	5.106	-13.742	22.489	1.00	0.00
ATOM	1005	CA	ALA	65	5.537	-15.081	22.851	1.00	0.00
ATOM	1007	C	ALA	65	4.854	-15.532	24.130	1.00	0.00
ATOM	1008	O	ALA	65	4.424	-16.678	24.239	1.00	0.00
ATOM	1006	CB	ALA	65	7.050	-15.127	23.010	1.00	0.00
ATOM	1009	H	ALA	65	5.687	-12.979	22.703	1.00	0.00
ATOM	1010	HA	ALA	65	5.260	-15.750	22.049	1.00	0.00
ATOM	1011	1HB	ALA	65	7.329	-14.655	23.941	1.00	0.00
ATOM	1012	2HB	ALA	65	7.515	-14.604	22.187	1.00	0.00
ATOM	1013	3HB	ALA	65	7.379	-16.156	23.016	1.00	0.00
ATOM	1014	N	ALA	66	4.754	-14.617	25.090	1.00	0.00
ATOM	1015	CA	ALA	66	4.115	-14.907	26.371	1.00	0.00
ATOM	1017	C	ALA	66	2.694	-15.427	26.165	1.00	0.00
ATOM	1018	O	ALA	66	2.225	-16.302	26.893	1.00	0.00
ATOM	1016	CB	ALA	66	4.103	-13.663	27.244	1.00	0.00
ATOM	1019	H	ALA	66	5.124	-13.714	24.932	1.00	0.00
ATOM	1020	HA	ALA	66	4.696	-15.665	26.873	1.00	0.00
ATOM	1021	1HB	ALA	66	3.083	-13.392	27.471	1.00	0.00
ATOM	1022	2HB	ALA	66	4.583	-12.850	26.718	1.00	0.00
ATOM	1023	3HB	ALA	66	4.636	-13.862	28.162	1.00	0.00
ATOM	1024	N	GLN	67	2.016	-14.881	25.164	1.00	0.00
ATOM	1025	CA	GLN	67	0.650	-15.285	24.851	1.00	0.00



ATOM	1031	C	GLN	67	0.600	-16.640	24.150	1.00	0.00
ATOM	1032	O	GLN	67	-0.058	-17.569	24.618	1.00	0.00
ATOM	1026	CB	GLN	67	-0.019	-14.248	23.952	1.00	0.00
ATOM	1027	CG	GLN	67	-0.654	-13.097	24.704	1.00	0.00
ATOM	1028	CD	GLN	67	-1.114	-11.996	23.775	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.307	-11.812	23.554	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.164	-11.258	23.225	1.00	0.00
ATOM	1033	H	GLN	67	2.448	-14.180	24.621	1.00	0.00
ATOM	1034	HA	GLN	67	0.100	-15.348	25.777	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.787	-14.737	23.371	1.00	0.00
ATOM	1036	2HB	GLN	67	0.723	-13.841	23.279	1.00	0.00
ATOM	1037	1HG	GLN	67	0.071	-12.689	25.394	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.507	-13.466	25.253	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.771	-11.465	23.448	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.432	-10.537	22.621	1.00	0.00
ATOM	1041	N	LEU	68	1.265	-16.732	23.004	1.00	0.00
ATOM	1042	CA	LEU	68	1.257	-17.955	22.202	1.00	0.00
ATOM	1047	C	LEU	68	2.159	-19.055	22.761	1.00	0.00
ATOM	1048	O	LEU	68	2.364	-20.076	22.108	1.00	0.00
ATOM	1043	CB	LEU	68	1.661	-17.639	20.758	1.00	0.00
ATOM	1044	CG	LEU	68	0.519	-17.194	19.833	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.796	-17.848	20.234	1.00	0.00
ATOM	1046	CD2	LEU	68	0.385	-15.678	19.840	1.00	0.00
ATOM	1049	H	LEU	68	1.748	-15.945	22.666	1.00	0.00
ATOM	1050	HA	LEU	68	0.243	-18.327	22.197	1.00	0.00
ATOM	1051	1HB	LEU	68	2.111	-18.523	20.333	1.00	0.00
ATOM	1052	2HB	LEU	68	2.403	-16.853	20.780	1.00	0.00
ATOM	1053	HG	LEU	68	0.746	-17.504	18.824	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.627	-18.893	20.452	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.504	-17.759	19.424	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.191	-17.357	21.113	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.571	-15.400	19.424	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.177	-15.246	19.246	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.456	-15.315	20.855	1.00	0.00
ATOM	1060	N	HIS	69	2.684	-18.872	23.963	1.00	0.00
ATOM	1061	CA	HIS	69	3.540	-19.889	24.562	1.00	0.00
ATOM	1068	C	HIS	69	2.688	-21.012	25.138	1.00	0.00
ATOM	1069	O	HIS	69	3.174	-22.113	25.382	1.00	0.00
ATOM	1062	CB	HIS	69	4.430	-19.298	25.659	1.00	0.00
ATOM	1063	CG	HIS	69	5.758	-19.984	25.780	1.00	0.00
ATOM	1064	ND1	HIS	69	6.947	-19.398	25.404	1.00	0.00
ATOM	1065	CD2	HIS	69	6.079	-21.219	26.233	1.00	0.00
ATOM	1066	CE1	HIS	69	7.939	-20.242	25.620	1.00	0.00
ATOM	1067	NE2	HIS	69	7.439	-21.356	26.123	1.00	0.00
ATOM	1070	H	HIS	69	2.492	-18.044	24.455	1.00	0.00
ATOM	1071	HA	HIS	69	4.165	-20.295	23.780	1.00	0.00
ATOM	1072	1HB	HIS	69	3.923	-19.380	26.609	1.00	0.00
ATOM	1073	2HB	HIS	69	4.613	-18.255	25.441	1.00	0.00
ATOM	1074	HD1	HIS	69	7.050	-18.498	25.026	1.00	0.00
ATOM	1075	HD2	HIS	69	5.388	-21.961	26.611	1.00	0.00
ATOM	1076	HE1	HIS	69	8.983	-20.054	25.419	1.00	0.00
ATOM	1077	HE2	HIS	69	7.922	-22.220	26.158	1.00	0.00
ATOM	1078	N	VAL	70	1.414	-20.723	25.348	1.00	0.00
ATOM	1079	CA	VAL	70	0.489	-21.706	25.886	1.00	0.00
ATOM	1083	C	VAL	70	-0.195	-22.477	24.762	1.00	0.00
ATOM	1084	O	VAL	70	0.166	-23.617	24.469	1.00	0.00
ATOM	1080	CB	VAL	70	-0.589	-21.052	26.780	1.00	0.00
ATOM	1081	CG1	VAL	70	-1.127	-22.057	27.789	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.036	-19.824	27.490	1.00	0.00
ATOM	1085	H	VAL	70	1.086	-19.826	25.127	1.00	0.00
ATOM	1086	HA	VAL	70	1.056	-22.399	26.491	1.00	0.00
ATOM	1087	HB	VAL	70	-1.408	-20.739	26.149	1.00	0.00
ATOM	1088	1HG1	VAL	70	-1.389	-21.545	28.703	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.370	-22.800	27.997	1.00	0.00
ATOM	1090	3HG1	VAL	70	-2.003	-22.540	27.384	1.00	0.00
ATOM	1091	1HG2	VAL	70	0.642	-19.302	26.830	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.493	-20.131	28.380	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.849	-19.168	27.762	1.00	0.00
ATOM	1094	N	THR	71	-1.185	-21.848	24.138	1.00	0.00
ATOM	1095	CA	THR	71	-1.934	-22.465	23.048	1.00	0.00
ATOM	1099	C	THR	71	-2.639	-21.394	22.216	1.00	0.00
ATOM	1100	O	THR	71	-3.088	-20.381	22.756	1.00	0.00
ATOM	1096	CB	THR	71	-2.991	-23.462	23.580	1.00	0.00



ATOM	1097	OG1	THR	71	-2.896	-23.570	25.007	1.00	0.00
ATOM	1098	CG2	THR	71	-2.808	-24.838	22.954	1.00	0.00
ATOM	1101	H	THR	71	-1.427	-20.940	24.418	1.00	0.00
ATOM	1102	HA	THR	71	-1.238	-23.002	22.420	1.00	0.00
ATOM	1103	HB	THR	71	-3.973	-23.093	23.321	1.00	0.00
ATOM	1104	HG1	THR	71	-2.063	-23.995	25.235	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.081	-24.778	22.157	1.00	0.00
ATOM	1106	2HG2	THR	71	-3.752	-25.180	22.554	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.462	-25.533	23.705	1.00	0.00
ATOM	1108	N	PRO	72	-2.740	-21.593	20.892	1.00	0.00
ATOM	1109	CA	PRO	72	-3.390	-20.638	19.994	1.00	0.00
ATOM	1113	C	PRO	72	-4.912	-20.680	20.117	1.00	0.00
ATOM	1114	O	PRO	72	-5.477	-21.642	20.640	1.00	0.00
ATOM	1110	CB	PRO	72	-2.961	-21.096	18.590	1.00	0.00
ATOM	1111	CG	PRO	72	-1.948	-22.176	18.800	1.00	0.00
ATOM	1112	CD	PRO	72	-2.223	-22.753	20.158	1.00	0.00
ATOM	1115	HA	PRO	72	-3.043	-19.631	20.170	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.534	-20.260	18.056	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.822	-21.465	18.053	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.954	-21.755	18.768	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.059	-22.936	18.042	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.314	-23.121	20.607	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.965	-23.536	20.097	1.00	0.00
ATOM	1122	N	GLY	73	-5.574	-19.640	19.624	1.00	0.00
ATOM	1123	CA	GLY	73	-7.024	-19.589	19.684	1.00	0.00
ATOM	1124	C	GLY	73	-7.531	-18.659	20.769	1.00	0.00
ATOM	1125	O	GLY	73	-8.176	-17.649	20.479	1.00	0.00
ATOM	1126	H	GLY	73	-5.075	-18.902	19.208	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.399	-20.584	19.874	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.402	-19.251	18.730	1.00	0.00
ATOM	1129	N	SER	74	-7.237	-18.997	22.019	1.00	0.00
ATOM	1130	CA	SER	74	-7.664	-18.201	23.169	1.00	0.00
ATOM	1133	C	SER	74	-6.842	-16.915	23.310	1.00	0.00
ATOM	1134	O	SER	74	-6.460	-16.518	24.412	1.00	0.00
ATOM	1131	CB	SER	74	-7.548	-19.056	24.433	1.00	0.00
ATOM	1132	OG	SER	74	-7.318	-20.417	24.096	1.00	0.00
ATOM	1135	H	SER	74	-6.720	-19.817	22.183	1.00	0.00
ATOM	1136	HA	SER	74	-8.700	-17.933	23.023	1.00	0.00
ATOM	1137	1HB	SER	74	-8.464	-18.986	24.999	1.00	0.00
ATOM	1138	2HB	SER	74	-6.723	-18.701	25.032	1.00	0.00
ATOM	1139	HG	SER	74	-7.912	-20.979	24.607	1.00	0.00
ATOM	1140	N	ALA	75	-6.591	-16.259	22.188	1.00	0.00
ATOM	1141	CA	ALA	75	-5.834	-15.021	22.181	1.00	0.00
ATOM	1143	C	ALA	75	-6.764	-13.818	22.177	1.00	0.00
ATOM	1144	O	ALA	75	-6.376	-12.725	22.582	1.00	0.00
ATOM	1142	CB	ALA	75	-4.904	-14.979	20.978	1.00	0.00
ATOM	1145	H	ALA	75	-6.933	-16.618	21.339	1.00	0.00
ATOM	1146	HA	ALA	75	-5.231	-14.994	23.069	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.032	-14.388	21.217	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.421	-14.534	20.140	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.600	-15.983	20.723	1.00	0.00
ATOM	1150	N	GLN	76	-7.995	-14.023	21.709	1.00	0.00
ATOM	1151	CA	GLN	76	-8.973	-12.939	21.637	1.00	0.00
ATOM	1157	C	GLN	76	-9.278	-12.357	23.000	1.00	0.00
ATOM	1158	O	GLN	76	-9.372	-11.146	23.139	1.00	0.00
ATOM	1152	CB	GLN	76	-10.264	-13.383	20.941	1.00	0.00
ATOM	1153	CG	GLN	76	-10.760	-14.756	21.340	1.00	0.00
ATOM	1154	CD	GLN	76	-11.952	-15.203	20.516	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.043	-16.362	20.118	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.871	-14.286	20.252	1.00	0.00
ATOM	1159	H	GLN	76	-8.243	-14.916	21.392	1.00	0.00
ATOM	1160	HA	GLN	76	-8.525	-12.158	21.041	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.099	-13.382	19.874	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.042	-12.670	21.170	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.041	-14.734	22.376	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.960	-15.466	21.196	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.737	-13.378	20.596	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.647	-14.552	19.714	1.00	0.00
ATOM	1167	N	GLN	77	-9.421	-13.212	24.002	1.00	0.00
ATOM	1168	CA	GLN	77	-9.713	-12.745	25.349	1.00	0.00
ATOM	1174	C	GLN	77	-8.569	-11.892	25.886	1.00	0.00
ATOM	1175	O	GLN	77	-8.796	-10.866	26.528	1.00	0.00
ATOM	1169	CB	GLN	77	-9.985	-13.925	26.280	1.00	0.00



ATOM	1170	CG	GLN	77	-11.449	-14.327	26.330	1.00	0.00
ATOM	1171	CD	GLN	77	-12.028	-14.247	27.728	1.00	0.00
ATOM	1172	OE1	GLN	77	-11.445	-14.758	28.683	1.00	0.00
ATOM	1173	NE2	GLN	77	-13.184	-13.609	27.858	1.00	0.00
ATOM	1176	H	GLN	77	-9.327	-14.174	23.834	1.00	0.00
ATOM	1177	HA	GLN	77	-10.597	-12.127	25.293	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.673	-13.661	27.279	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.410	-14.775	25.943	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.543	-15.343	25.975	1.00	0.00
ATOM	1181	2HG	GLN	77	-12.012	-13.669	25.687	1.00	0.00
ATOM	1182	1HE2	GLN	77	-13.600	-13.229	27.056	1.00	0.00
ATOM	1183	2HE2	GLN	77	-13.575	-13.542	28.753	1.00	0.00
ATOM	1184	N	ARG	78	-7.342	-12.306	25.595	1.00	0.00
ATOM	1185	CA	ARG	78	-6.168	-11.564	26.032	1.00	0.00
ATOM	1193	C	ARG	78	-6.090	-10.232	25.296	1.00	0.00
ATOM	1194	O	ARG	78	-5.825	-9.190	25.902	1.00	0.00
ATOM	1186	CB	ARG	78	-4.898	-12.382	25.795	1.00	0.00
ATOM	1187	CG	ARG	78	-4.719	-13.512	26.796	1.00	0.00
ATOM	1188	CD	ARG	78	-3.696	-14.530	26.319	1.00	0.00
ATOM	1189	NE	ARG	78	-3.312	-15.458	27.386	1.00	0.00
ATOM	1190	CZ	ARG	78	-2.157	-15.400	28.053	1.00	0.00
ATOM	1191	NH1	ARG	78	-1.265	-14.453	27.770	1.00	0.00
ATOM	1192	NH2	ARG	78	-1.901	-16.286	29.012	1.00	0.00
ATOM	1195	H	ARG	78	-7.226	-13.117	25.060	1.00	0.00
ATOM	1196	HA	ARG	78	-6.273	-11.373	27.090	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.042	-11.727	25.866	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.934	-12.809	24.803	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.668	-14.008	26.934	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.387	-13.098	27.736	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.816	-14.006	25.974	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.121	-15.093	25.501	1.00	0.00
ATOM	1203	HE	ARG	78	-3.958	-16.161	27.616	1.00	0.00
ATOM	1204	1HH1	ARG	78	-1.458	-13.781	27.053	1.00	0.00
ATOM	1205	2HH1	ARG	78	-0.397	-14.403	28.270	1.00	0.00
ATOM	1206	1HH2	ARG	78	-2.576	-16.996	29.233	1.00	0.00
ATOM	1207	2HH2	ARG	78	-1.036	-16.252	29.515	1.00	0.00
ATOM	1208	N	PHE	79	-6.342	-10.274	23.990	1.00	0.00
ATOM	1209	CA	PHE	79	-6.318	-9.075	23.165	1.00	0.00
ATOM	1217	C	PHE	79	-7.396	-8.099	23.620	1.00	0.00
ATOM	1218	O	PHE	79	-7.127	-6.914	23.799	1.00	0.00
ATOM	1210	CB	PHE	79	-6.512	-9.424	21.689	1.00	0.00
ATOM	1211	CG	PHE	79	-5.933	-8.400	20.753	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.564	-8.194	20.691	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.760	-7.642	19.939	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.030	-7.250	19.835	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.231	-6.698	19.081	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.865	-6.501	19.028	1.00	0.00
ATOM	1219	H	PHE	79	-6.556	-11.136	23.573	1.00	0.00
ATOM	1220	HA	PHE	79	-5.351	-8.608	23.289	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.568	-9.506	21.481	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.034	-10.370	21.482	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.911	-8.780	21.321	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.828	-7.795	19.980	1.00	0.00
ATOM	1225	HE1	PHE	79	-2.962	-7.100	19.796	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.886	-6.114	18.452	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.450	-5.763	18.358	1.00	0.00
ATOM	1228	N	THR	80	-8.617	-8.597	23.810	1.00	0.00
ATOM	1229	CA	THR	80	-9.720	-7.746	24.250	1.00	0.00
ATOM	1233	C	THR	80	-9.404	-7.072	25.588	1.00	0.00
ATOM	1234	O	THR	80	-9.852	-5.957	25.840	1.00	0.00
ATOM	1230	CB	THR	80	-11.047	-8.524	24.374	1.00	0.00
ATOM	1231	OG1	THR	80	-10.831	-9.801	24.986	1.00	0.00
ATOM	1232	CG2	THR	80	-11.687	-8.716	23.007	1.00	0.00
ATOM	1235	H	THR	80	-8.784	-9.560	23.644	1.00	0.00
ATOM	1236	HA	THR	80	-9.852	-6.975	23.505	1.00	0.00
ATOM	1237	HB	THR	80	-11.722	-7.950	24.990	1.00	0.00
ATOM	1238	HG1	THR	80	-10.286	-9.696	25.773	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.188	-9.671	22.976	1.00	0.00
ATOM	1240	2HG2	THR	80	-10.922	-8.684	22.245	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.404	-7.928	22.831	1.00	0.00
ATOM	1242	N	GLN	81	-8.622	-7.747	26.435	1.00	0.00
ATOM	1243	CA	GLN	81	-8.250	-7.194	27.736	1.00	0.00
ATOM	1249	C	GLN	81	-7.416	-5.936	27.572	1.00	0.00



ATOM	1250	O	GLN	81	-7.845	-4.845	27.939	1.00	0.00
ATOM	1244	CB	GLN	81	-7.464	-8.208	28.563	1.00	0.00
ATOM	1245	CG	GLN	81	-8.333	-9.270	29.199	1.00	0.00
ATOM	1246	CD	GLN	81	-9.450	-8.699	30.055	1.00	0.00
ATOM	1247	OE1	GLN	81	-10.567	-9.217	30.056	1.00	0.00
ATOM	1248	NE2	GLN	81	-9.170	-7.629	30.784	1.00	0.00
ATOM	1251	H	GLN	81	-8.283	-8.631	26.175	1.00	0.00
ATOM	1252	HA	GLN	81	-9.158	-6.945	28.260	1.00	0.00
ATOM	1253	1HB	GLN	81	-6.936	-7.685	29.348	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.745	-8.697	27.922	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.712	-9.905	29.815	1.00	0.00
ATOM	1256	2HG	GLN	81	-8.773	-9.854	28.410	1.00	0.00
ATOM	1257	1HE2	GLN	81	-8.257	-7.251	30.738	1.00	0.00
ATOM	1258	2HE2	GLN	81	-9.880	-7.253	31.344	1.00	0.00
ATOM	1259	N	VAL	82	-6.223	-6.105	27.011	1.00	0.00
ATOM	1260	CA	VAL	82	-5.307	-4.984	26.792	1.00	0.00
ATOM	1264	C	VAL	82	-5.985	-3.875	25.987	1.00	0.00
ATOM	1265	O	VAL	82	-5.765	-2.692	26.231	1.00	0.00
ATOM	1261	CB	VAL	82	-4.004	-5.435	26.078	1.00	0.00
ATOM	1262	CG1	VAL	82	-4.299	-6.183	24.788	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.093	-4.247	25.805	1.00	0.00
ATOM	1266	H	VAL	82	-5.953	-7.010	26.741	1.00	0.00
ATOM	1267	HA	VAL	82	-5.035	-4.587	27.768	1.00	0.00
ATOM	1268	HB	VAL	82	-3.480	-6.107	26.736	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.878	-5.642	23.954	1.00	0.00
ATOM	1270	2HG1	VAL	82	-5.369	-6.269	24.659	1.00	0.00
ATOM	1271	3HG1	VAL	82	-3.862	-7.169	24.835	1.00	0.00
ATOM	1272	1HG2	VAL	82	-2.244	-4.572	25.221	1.00	0.00
ATOM	1273	2HG2	VAL	82	-2.749	-3.834	26.742	1.00	0.00
ATOM	1274	3HG2	VAL	82	-3.639	-3.493	25.257	1.00	0.00
ATOM	1275	N	SER	83	-6.827	-4.268	25.039	1.00	0.00
ATOM	1276	CA	SER	83	-7.546	-3.306	24.214	1.00	0.00
ATOM	1279	C	SER	83	-8.530	-2.499	25.055	1.00	0.00
ATOM	1280	O	SER	83	-8.583	-1.273	24.956	1.00	0.00
ATOM	1277	CB	SER	83	-8.283	-4.018	23.080	1.00	0.00
ATOM	1278	OG	SER	83	-7.383	-4.763	22.280	1.00	0.00
ATOM	1281	H	SER	83	-6.973	-5.229	24.901	1.00	0.00
ATOM	1282	HA	SER	83	-6.819	-2.630	23.788	1.00	0.00
ATOM	1283	1HB	SER	83	-8.781	-3.287	22.460	1.00	0.00
ATOM	1284	2HB	SER	83	-9.015	-4.693	23.499	1.00	0.00
ATOM	1285	HG	SER	83	-7.114	-5.558	22.757	1.00	0.00
ATOM	1286	N	ASP	84	-9.294	-3.193	25.895	1.00	0.00
ATOM	1287	CA	ASP	84	-10.267	-2.535	26.762	1.00	0.00
ATOM	1292	C	ASP	84	-9.547	-1.666	27.780	1.00	0.00
ATOM	1293	O	ASP	84	-9.993	-0.567	28.108	1.00	0.00
ATOM	1288	CB	ASP	84	-11.147	-3.565	27.476	1.00	0.00
ATOM	1289	CG	ASP	84	-12.623	-3.408	27.147	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.962	-2.653	26.208	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.452	-4.051	27.822	1.00	0.00
ATOM	1294	H	ASP	84	-9.194	-4.173	25.941	1.00	0.00
ATOM	1295	HA	ASP	84	-10.890	-1.906	26.143	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.022	-3.456	28.543	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.839	-4.557	27.182	1.00	0.00
ATOM	1298	N	GLU	85	-8.412	-2.165	28.258	1.00	0.00
ATOM	1299	CA	GLU	85	-7.598	-1.446	29.226	1.00	0.00
ATOM	1305	C	GLU	85	-6.969	-0.209	28.585	1.00	0.00
ATOM	1306	O	GLU	85	-6.663	0.767	29.265	1.00	0.00
ATOM	1300	CB	GLU	85	-6.506	-2.366	29.784	1.00	0.00
ATOM	1301	CG	GLU	85	-6.982	-3.257	30.923	1.00	0.00
ATOM	1302	CD	GLU	85	-6.479	-4.686	30.811	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.287	-4.881	30.496	1.00	0.00
ATOM	1304	OE2	GLU	85	-7.275	-5.620	31.055	1.00	0.00
ATOM	1307	H	GLU	85	-8.108	-3.045	27.940	1.00	0.00
ATOM	1308	HA	GLU	85	-8.241	-1.131	30.034	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.690	-1.759	30.148	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.144	-3.000	28.987	1.00	0.00
ATOM	1311	1HG	GLU	85	-8.062	-3.271	30.921	1.00	0.00
ATOM	1312	2HG	GLU	85	-6.632	-2.842	31.856	1.00	0.00
ATOM	1313	N	LEU	86	-6.789	-0.260	27.271	1.00	0.00
ATOM	1314	CA	LEU	86	-6.206	0.851	26.528	1.00	0.00
ATOM	1319	C	LEU	86	-7.247	1.942	26.291	1.00	0.00
ATOM	1320	O	LEU	86	-6.945	3.131	26.356	1.00	0.00
ATOM	1315	CB	LEU	86	-5.645	0.365	25.187	1.00	0.00



ATOM	1316	CG	LEU	86	-4.120	0.401	25.071	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.483	-0.468	26.141	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.674	-0.051	23.688	1.00	0.00
ATOM	1321	H	LEU	86	-7.058	-1.070	26.786	1.00	0.00
ATOM	1322	HA	LEU	86	-5.402	1.260	27.121	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.057	0.983	24.404	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.973	-0.652	25.030	1.00	0.00
ATOM	1325	HG	LEU	86	-3.778	1.415	25.218	1.00	0.00
ATOM	1326	1HD1	LEU	86	-4.243	-0.796	26.836	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.734	0.102	26.669	1.00	0.00
ATOM	1328	3HD1	LEU	86	-3.023	-1.329	25.679	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.873	0.733	22.971	1.00	0.00
ATOM	1330	2HD2	LEU	86	-4.218	-0.942	23.407	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.615	-0.266	23.703	1.00	0.00
ATOM	1332	N	PHE	87	-8.475	1.528	26.020	1.00	0.00
ATOM	1333	CA	PHE	87	-9.560	2.471	25.778	1.00	0.00
ATOM	1341	C	PHE	87	-10.184	2.915	27.100	1.00	0.00
ATOM	1342	O	PHE	87	-11.045	3.794	27.127	1.00	0.00
ATOM	1334	CB	PHE	87	-10.621	1.830	24.876	1.00	0.00
ATOM	1335	CG	PHE	87	-11.676	2.785	24.383	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.396	3.683	23.367	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.946	2.784	24.939	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.362	4.562	22.915	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.915	3.660	24.491	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.623	4.551	23.477	1.00	0.00
ATOM	1343	H	PHE	87	-8.661	0.562	25.982	1.00	0.00
ATOM	1344	HA	PHE	87	-9.144	3.334	25.279	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.118	1.044	25.426	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.136	1.403	24.011	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.411	3.693	22.927	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.176	2.087	25.731	1.00	0.00
ATOM	1349	HE1	PHE	87	-12.130	5.257	22.122	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.901	3.649	24.934	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.378	5.237	23.125	1.00	0.00
ATOM	1352	N	GLN	88	-9.744	2.286	28.188	1.00	0.00
ATOM	1353	CA	GLN	88	-10.246	2.578	29.532	1.00	0.00
ATOM	1359	C	GLN	88	-10.302	4.078	29.817	1.00	0.00
ATOM	1360	O	GLN	88	-11.277	4.567	30.383	1.00	0.00
ATOM	1354	CB	GLN	88	-9.380	1.884	30.582	1.00	0.00
ATOM	1355	CG	GLN	88	-10.018	0.632	31.163	1.00	0.00
ATOM	1356	CD	GLN	88	-9.407	0.222	32.489	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.208	1.050	33.375	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.111	-1.062	32.634	1.00	0.00
ATOM	1361	H	GLN	88	-9.065	1.586	28.082	1.00	0.00
ATOM	1362	HA	GLN	88	-11.248	2.182	29.596	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.190	2.575	31.390	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.440	1.606	30.128	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.893	-0.178	30.460	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.070	0.817	31.314	1.00	0.00
ATOM	1367	1HE2	GLN	88	-9.301	-1.670	31.887	1.00	0.00
ATOM	1368	2HE2	GLN	88	-8.717	-1.353	33.482	1.00	0.00
ATOM	1369	N	GLY	89	-9.264	4.808	29.429	1.00	0.00
ATOM	1370	CA	GLY	89	-9.265	6.233	29.671	1.00	0.00
ATOM	1371	C	GLY	89	-8.113	6.959	29.013	1.00	0.00
ATOM	1372	O	GLY	89	-7.354	7.658	29.686	1.00	0.00
ATOM	1373	H	GLY	89	-8.505	4.380	28.980	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.217	6.401	30.737	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.189	6.646	29.297	1.00	0.00
ATOM	1376	N	GLY	90	-7.985	6.821	27.698	1.00	0.00
ATOM	1377	CA	GLY	90	-6.916	7.512	27.006	1.00	0.00
ATOM	1378	C	GLY	90	-6.540	6.912	25.660	1.00	0.00
ATOM	1379	O	GLY	90	-5.374	6.584	25.450	1.00	0.00
ATOM	1380	H	GLY	90	-8.622	6.267	27.199	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.042	7.507	27.639	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.218	8.536	26.848	1.00	0.00
ATOM	1383	N	PRO	91	-7.482	6.791	24.701	1.00	0.00
ATOM	1384	CA	PRO	91	-7.175	6.263	23.370	1.00	0.00
ATOM	1388	C	PRO	91	-6.505	7.317	22.489	1.00	0.00
ATOM	1389	O	PRO	91	-6.826	7.462	21.312	1.00	0.00
ATOM	1385	CB	PRO	91	-8.536	5.889	22.790	1.00	0.00
ATOM	1386	CG	PRO	91	-9.562	6.604	23.598	1.00	0.00
ATOM	1387	CD	PRO	91	-8.892	7.188	24.820	1.00	0.00
ATOM	1390	HA	PRO	91	-6.546	5.386	23.427	1.00	0.00



ATOM	1391	1HB	PRO	91	-8.666	4.819	22.844	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.580	6.211	21.760	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.344	5.915	23.886	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.983	7.392	23.002	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.330	6.775	25.717	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.985	8.263	24.818	1.00	0.00
ATOM	1397	N	ASN	92	-5.583	8.053	23.086	1.00	0.00
ATOM	1398	CA	ASN	92	-4.858	9.114	22.401	1.00	0.00
ATOM	1403	C	ASN	92	-3.956	8.558	21.308	1.00	0.00
ATOM	1404	O	ASN	92	-3.619	7.377	21.321	1.00	0.00
ATOM	1399	CB	ASN	92	-4.027	9.901	23.412	1.00	0.00
ATOM	1400	CG	ASN	92	-3.800	11.333	22.988	1.00	0.00
ATOM	1401	OD1	ASN	92	-3.078	11.598	22.028	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.406	12.268	23.704	1.00	0.00
ATOM	1405	H	ASN	92	-5.390	7.877	24.029	1.00	0.00
ATOM	1406	HA	ASN	92	-5.582	9.777	21.952	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.065	9.421	23.526	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.538	9.904	24.363	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.962	11.987	24.459	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.271	13.205	23.450	1.00	0.00
ATOM	1411	N	TRP	93	-3.551	9.426	20.379	1.00	0.00
ATOM	1412	CA	TRP	93	-2.667	9.044	19.276	1.00	0.00
ATOM	1423	C	TRP	93	-1.387	8.412	19.811	1.00	0.00
ATOM	1424	O	TRP	93	-0.778	7.578	19.147	1.00	0.00
ATOM	1413	CB	TRP	93	-2.328	10.257	18.403	1.00	0.00
ATOM	1414	CG	TRP	93	-3.484	11.193	18.187	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.667	12.410	18.778	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.612	10.999	17.317	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.830	12.983	18.330	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.428	12.140	17.437	1.00	0.00
ATOM	1419	CE3	TRP	93	-5.014	9.978	16.450	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.616	12.289	16.729	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.198	10.131	15.746	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.982	11.279	15.889	1.00	0.00
ATOM	1425	H	TRP	93	-3.848	10.361	20.443	1.00	0.00
ATOM	1426	HA	TRP	93	-3.185	8.312	18.671	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.993	9.909	17.435	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.533	10.816	18.872	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.985	12.848	19.492	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.182	13.864	18.602	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.422	9.084	16.326	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.234	13.170	16.827	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.528	9.360	15.067	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.896	11.353	15.319	1.00	0.00
ATOM	1435	N	GLY	94	-1.008	8.792	21.033	1.00	0.00
ATOM	1436	CA	GLY	94	0.174	8.231	21.653	1.00	0.00
ATOM	1437	C	GLY	94	0.017	6.734	21.858	1.00	0.00
ATOM	1438	O	GLY	94	0.932	5.951	21.604	1.00	0.00
ATOM	1439	H	GLY	94	-1.553	9.440	21.523	1.00	0.00
ATOM	1440	1HA	GLY	94	0.324	8.700	22.613	1.00	0.00
ATOM	1441	2HA	GLY	94	1.032	8.427	21.028	1.00	0.00
ATOM	1442	N	ARG	95	-1.170	6.345	22.310	1.00	0.00
ATOM	1443	CA	ARG	95	-1.493	4.947	22.537	1.00	0.00
ATOM	1451	C	ARG	95	-2.011	4.293	21.259	1.00	0.00
ATOM	1452	O	ARG	95	-1.936	3.074	21.111	1.00	0.00
ATOM	1444	CB	ARG	95	-2.527	4.810	23.659	1.00	0.00
ATOM	1445	CG	ARG	95	-2.401	3.516	24.449	1.00	0.00
ATOM	1446	CD	ARG	95	-0.945	3.162	24.707	1.00	0.00
ATOM	1447	NE	ARG	95	-0.794	1.878	25.389	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.765	1.734	26.714	1.00	0.00
ATOM	1449	NH1	ARG	95	-0.927	2.790	27.503	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.592	0.533	27.250	1.00	0.00
ATOM	1453	H	ARG	95	-1.853	7.023	22.482	1.00	0.00
ATOM	1454	HA	ARG	95	-0.585	4.445	22.828	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.517	4.849	23.230	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.409	5.637	24.344	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.863	2.717	23.887	1.00	0.00
ATOM	1458	2HG	ARG	95	-2.906	3.632	25.396	1.00	0.00
ATOM	1459	1HD	ARG	95	-0.504	3.938	25.318	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.427	3.116	23.761	1.00	0.00
ATOM	1461	HE	ARG	95	-0.703	1.079	24.824	1.00	0.00
ATOM	1462	1HH1	ARG	95	-1.077	3.698	27.110	1.00	0.00
ATOM	1463	2HH1	ARG	95	-0.901	2.681	28.498	1.00	0.00



ATOM	1464	1HH2	ARG	95	-0.478	-0.271	26.665	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.598	0.421	28.252	1.00	0.00
ATOM	1466	N	LEU	96	-2.528	5.112	20.343	1.00	0.00
ATOM	1467	CA	LEU	96	-3.058	4.633	19.064	1.00	0.00
ATOM	1472	C	LEU	96	-1.990	3.838	18.324	1.00	0.00
ATOM	1473	O	LEU	96	-2.287	2.876	17.606	1.00	0.00
ATOM	1468	CB	LEU	96	-3.525	5.823	18.214	1.00	0.00
ATOM	1469	CG	LEU	96	-4.641	5.542	17.197	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.078	5.544	15.786	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.347	4.224	17.490	1.00	0.00
ATOM	1474	H	LEU	96	-2.553	6.076	20.531	1.00	0.00
ATOM	1475	HA	LEU	96	-3.900	3.987	19.268	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.669	6.202	17.672	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.871	6.596	18.883	1.00	0.00
ATOM	1478	HG	LEU	96	-5.374	6.333	17.258	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.818	6.553	15.505	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.819	5.158	15.102	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.196	4.920	15.750	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.404	4.331	17.300	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.193	3.956	18.526	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.942	3.449	16.855	1.00	0.00
ATOM	1485	N	VAL	97	-0.744	4.227	18.539	1.00	0.00
ATOM	1486	CA	VAL	97	0.381	3.545	17.933	1.00	0.00
ATOM	1490	C	VAL	97	0.426	2.109	18.431	1.00	0.00
ATOM	1491	O	VAL	97	0.501	1.165	17.649	1.00	0.00
ATOM	1487	CB	VAL	97	1.711	4.221	18.286	1.00	0.00
ATOM	1488	CG1	VAL	97	2.787	3.728	17.351	1.00	0.00
ATOM	1489	CG2	VAL	97	1.594	5.734	18.229	1.00	0.00
ATOM	1492	H	VAL	97	-0.579	4.981	19.150	1.00	0.00
ATOM	1493	HA	VAL	97	0.264	3.557	16.852	1.00	0.00
ATOM	1494	HB	VAL	97	1.981	3.937	19.293	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.544	4.017	16.339	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.854	2.652	17.413	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.735	4.164	17.631	1.00	0.00
ATOM	1498	1HG2	VAL	97	2.038	6.165	19.114	1.00	0.00
ATOM	1499	2HG2	VAL	97	0.551	6.014	18.178	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.107	6.102	17.352	1.00	0.00
ATOM	1501	N	ALA	98	0.357	1.967	19.750	1.00	0.00
ATOM	1502	CA	ALA	98	0.375	0.665	20.399	1.00	0.00
ATOM	1504	C	ALA	98	-0.838	-0.162	20.007	1.00	0.00
ATOM	1505	O	ALA	98	-0.752	-1.382	19.919	1.00	0.00
ATOM	1503	CB	ALA	98	0.426	0.826	21.911	1.00	0.00
ATOM	1506	H	ALA	98	0.281	2.770	20.305	1.00	0.00
ATOM	1507	HA	ALA	98	1.271	0.147	20.086	1.00	0.00
ATOM	1508	1HB	ALA	98	0.865	1.781	22.157	1.00	0.00
ATOM	1509	2HB	ALA	98	1.024	0.034	22.336	1.00	0.00
ATOM	1510	3HB	ALA	98	-0.576	0.776	22.311	1.00	0.00
ATOM	1511	N	PHE	99	-1.960	0.510	19.768	1.00	0.00
ATOM	1512	CA	PHE	99	-3.193	-0.158	19.378	1.00	0.00
ATOM	1520	C	PHE	99	-2.958	-1.022	18.147	1.00	0.00
ATOM	1521	O	PHE	99	-3.258	-2.217	18.141	1.00	0.00
ATOM	1513	CB	PHE	99	-4.276	0.883	19.062	1.00	0.00
ATOM	1514	CG	PHE	99	-5.151	1.300	20.219	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.127	0.455	20.726	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.018	2.563	20.773	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.945	0.863	21.767	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.835	2.980	21.805	1.00	0.00
ATOM	1519	C2	PHE	99	-6.799	2.132	22.305	1.00	0.00
ATOM	1522	H	PHE	99	-1.959	1.487	19.853	1.00	0.00
ATOM	1523	HA	PHE	99	-3.510	-0.787	20.192	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.916	0.488	18.293	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.798	1.775	18.687	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.261	3.230	20.386	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.241	-0.536	20.309	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.714	3.968	22.224	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.699	0.195	22.156	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.445	2.463	23.109	1.00	0.00
ATOM	1531	N	PHE	100	-2.419	-0.406	17.105	1.00	0.00
ATOM	1532	CA	PHE	100	-2.146	-1.116	15.864	1.00	0.00
ATOM	1540	C	PHE	100	-0.874	-1.947	15.972	1.00	0.00
ATOM	1541	O	PHE	100	-0.797	-3.055	15.437	1.00	0.00
ATOM	1533	CB	PHE	100	-2.030	-0.130	14.703	1.00	0.00
ATOM	1534	CG	PHE	100	-3.336	0.130	14.011	1.00	0.00



ATOM	1535	CD1	PHE	100	-4.324	0.876	14.630	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.578	-0.376	12.744	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.528	1.114	14.000	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.783	-0.141	12.109	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.759	0.605	12.738	1.00	0.00
ATOM	1542	H	PHE	100	-2.203	0.552	17.172	1.00	0.00
ATOM	1543	HA	PHE	100	-2.977	-1.780	15.676	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.338	-0.523	13.972	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.657	0.812	15.075	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.815	-0.958	12.251	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.146	1.277	15.617	1.00	0.00
ATOM	1548	HE1	PHE	100	-4.959	-0.540	11.120	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.290	1.698	14.494	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.702	0.790	12.247	1.00	0.00
ATOM	1551	N	VAL	101	0.120	-1.407	16.665	1.00	0.00
ATOM	1552	CA	VAL	101	1.398	-2.090	16.844	1.00	0.00
ATOM	1556	C	VAL	101	1.218	-3.429	17.559	1.00	0.00
ATOM	1557	O	VAL	101	1.895	-4.403	17.223	1.00	0.00
ATOM	1553	CB	VAL	101	2.408	-1.198	17.617	1.00	0.00
ATOM	1554	CG1	VAL	101	3.384	-2.024	18.449	1.00	0.00
ATOM	1555	CG2	VAL	101	3.170	-0.303	16.650	1.00	0.00
ATOM	1558	H	VAL	101	-0.005	-0.517	17.065	1.00	0.00
ATOM	1559	HA	VAL	101	1.805	-2.277	15.861	1.00	0.00
ATOM	1560	HB	VAL	101	1.851	-0.563	18.290	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.834	-1.398	19.204	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.156	-2.423	17.807	1.00	0.00
ATOM	1563	3HG1	VAL	101	2.855	-2.837	18.925	1.00	0.00
ATOM	1564	1HG2	VAL	101	4.006	-0.849	16.238	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.532	0.568	17.176	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.512	0.006	15.851	1.00	0.00
ATOM	1567	N	PHE	102	0.305	-3.480	18.533	1.00	0.00
ATOM	1568	CA	PHE	102	0.058	-4.710	19.279	1.00	0.00
ATOM	1576	C	PHE	102	-0.304	-5.858	18.348	1.00	0.00
ATOM	1577	O	PHE	102	0.284	-6.937	18.420	1.00	0.00
ATOM	1569	CB	PHE	102	-1.061	-4.502	20.300	1.00	0.00
ATOM	1570	CG	PHE	102	-0.569	-4.340	21.709	1.00	0.00
ATOM	1571	CD1	PHE	102	0.285	-5.274	22.273	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.971	-3.258	22.473	1.00	0.00
ATOM	1573	CE1	PHE	102	0.729	-5.131	23.574	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.529	-3.107	23.772	1.00	0.00
ATOM	1575	CZ	PHE	102	0.321	-4.046	24.324	1.00	0.00
ATOM	1578	H	PHE	102	-0.218	-2.666	18.759	1.00	0.00
ATOM	1579	HA	PHE	102	0.967	-4.966	19.801	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.724	-5.355	20.274	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.617	-3.614	20.038	1.00	0.00
ATOM	1582	HD1	PHE	102	0.605	-6.123	21.686	1.00	0.00
ATOM	1583	HD2	PHE	102	-1.635	-2.523	22.042	1.00	0.00
ATOM	1584	HE1	PHE	102	1.394	-5.865	24.002	1.00	0.00
ATOM	1585	HE2	PHE	102	-0.849	-2.258	24.358	1.00	0.00
ATOM	1586	HZ	PHE	102	0.661	-3.934	25.343	1.00	0.00
ATOM	1587	N	GLY	103	-1.271	-5.625	17.476	1.00	0.00
ATOM	1588	CA	GLY	103	-1.688	-6.659	16.552	1.00	0.00
ATOM	1589	C	GLY	103	-0.717	-6.860	15.411	1.00	0.00
ATOM	1590	O	GLY	103	-0.476	-7.989	15.003	1.00	0.00
ATOM	1591	H	GLY	103	-1.707	-4.745	17.461	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.649	-6.400	16.147	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.781	-7.589	17.094	1.00	0.00
ATOM	1594	N	ALA	104	-0.159	-5.771	14.891	1.00	0.00
ATOM	1595	CA	ALA	104	0.788	-5.854	13.784	1.00	0.00
ATOM	1597	C	ALA	104	1.982	-6.721	14.156	1.00	0.00
ATOM	1598	O	ALA	104	2.428	-7.551	13.364	1.00	0.00
ATOM	1596	CB	ALA	104	1.251	-4.463	13.366	1.00	0.00
ATOM	1599	H	ALA	104	-0.392	-4.889	15.260	1.00	0.00
ATOM	1600	HA	ALA	104	0.279	-6.310	12.943	1.00	0.00
ATOM	1601	1HB	ALA	104	1.241	-3.808	14.225	1.00	0.00
ATOM	1602	2HB	ALA	104	0.584	-4.075	12.609	1.00	0.00
ATOM	1603	3HB	ALA	104	2.253	-4.522	12.969	1.00	0.00
ATOM	1604	N	ALA	105	2.484	-6.546	15.373	1.00	0.00
ATOM	1605	CA	ALA	105	3.607	-7.341	15.838	1.00	0.00
ATOM	1607	C	ALA	105	3.148	-8.769	16.102	1.00	0.00
ATOM	1608	O	ALA	105	3.816	-9.732	15.718	1.00	0.00
ATOM	1606	CB	ALA	105	4.219	-6.730	17.093	1.00	0.00
ATOM	1609	H	ALA	105	2.078	-5.880	15.976	1.00	0.00



ATOM	1610	HA	ALA	105	4.358	-7.348	15.060	1.00	0.00
ATOM	1611	1HB	ALA	105	4.893	-5.934	16.814	1.00	0.00
ATOM	1612	2HB	ALA	105	4.764	-7.490	17.635	1.00	0.00
ATOM	1613	3HB	ALA	105	3.435	-6.333	17.720	1.00	0.00
ATOM	1614	N	LEU	106	1.988	-8.889	16.746	1.00	0.00
ATOM	1615	CA	LEU	106	1.405	-10.185	17.065	1.00	0.00
ATOM	1620	C	LEU	106	1.229	-11.019	15.803	1.00	0.00
ATOM	1621	O	LEU	106	1.607	-12.189	15.755	1.00	0.00
ATOM	1616	CB	LEU	106	0.048	-9.981	17.748	1.00	0.00
ATOM	1617	CG	LEU	106	-0.221	-10.873	18.961	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.568	-10.022	20.172	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.344	-11.856	18.662	1.00	0.00
ATOM	1622	H	LEU	106	1.503	-8.073	17.008	1.00	0.00
ATOM	1623	HA	LEU	106	2.071	-10.699	17.740	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.731	-10.153	17.019	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.011	-8.951	18.071	1.00	0.00
ATOM	1626	HG	LEU	106	0.670	-11.438	19.192	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.724	-8.999	19.859	1.00	0.00
ATOM	1628	2HD1	LEU	106	0.243	-10.062	20.884	1.00	0.00
ATOM	1629	3HD1	LEU	106	-1.470	-10.399	20.631	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.618	-11.785	17.619	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.200	-11.621	19.277	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.009	-12.860	18.880	1.00	0.00
ATOM	1633	N	CYS	107	0.652	-10.387	14.791	1.00	0.00
ATOM	1634	CA	CYS	107	0.393	-11.015	13.504	1.00	0.00
ATOM	1637	C	CYS	107	1.684	-11.473	12.830	1.00	0.00
ATOM	1638	O	CYS	107	1.748	-12.575	12.288	1.00	0.00
ATOM	1635	CB	CYS	107	-0.359	-10.037	12.600	1.00	0.00
ATOM	1636	SG	CYS	107	-2.110	-9.846	13.018	1.00	0.00
ATOM	1639	H	CYS	107	0.384	-9.451	14.920	1.00	0.00
ATOM	1640	HA	CYS	107	-0.231	-11.878	13.677	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.299	-10.376	11.580	1.00	0.00
ATOM	1642	2HB	CYS	107	0.104	-9.065	12.674	1.00	0.00
ATOM	1643	HG	CYS	107	-2.428	-10.799	13.882	1.00	0.00
ATOM	1644	N	ALA	108	2.709	-10.628	12.871	1.00	0.00
ATOM	1645	CA	ALA	108	3.998	-10.953	12.267	1.00	0.00
ATOM	1647	C	ALA	108	4.548	-12.266	12.818	1.00	0.00
ATOM	1648	O	ALA	108	5.161	-13.053	12.091	1.00	0.00
ATOM	1646	CB	ALA	108	4.991	-9.823	12.500	1.00	0.00
ATOM	1649	H	ALA	108	2.598	-9.763	13.319	1.00	0.00
ATOM	1650	HA	ALA	108	3.850	-11.057	11.202	1.00	0.00
ATOM	1651	1HB	ALA	108	4.501	-9.015	13.023	1.00	0.00
ATOM	1652	2HB	ALA	108	5.359	-9.466	11.550	1.00	0.00
ATOM	1653	3HB	ALA	108	5.818	-10.186	13.092	1.00	0.00
ATOM	1654	N	GLU	109	4.325	-12.500	14.105	1.00	0.00
ATOM	1655	CA	GLU	109	4.799	-13.714	14.750	1.00	0.00
ATOM	1661	C	GLU	109	3.869	-14.903	14.496	1.00	0.00
ATOM	1662	O	GLU	109	4.307	-16.054	14.539	1.00	0.00
ATOM	1656	CB	GLU	109	4.980	-13.492	16.246	1.00	0.00
ATOM	1657	CG	GLU	109	5.536	-14.713	16.946	1.00	0.00
ATOM	1658	CD	GLU	109	6.654	-14.399	17.914	1.00	0.00
ATOM	1659	OE1	GLU	109	6.872	-13.213	18.221	1.00	0.00
ATOM	1660	OE2	GLU	109	7.339	-15.354	18.353	1.00	0.00
ATOM	1663	H	GLU	109	3.832	-11.832	14.637	1.00	0.00
ATOM	1664	HA	GLU	109	5.758	-13.955	14.330	1.00	0.00
ATOM	1665	1HB	GLU	109	4.024	-13.252	16.687	1.00	0.00
ATOM	1666	2HB	GLU	109	5.661	-12.667	16.400	1.00	0.00
ATOM	1667	1HG	GLU	109	5.913	-15.392	16.196	1.00	0.00
ATOM	1668	2HG	GLU	109	4.739	-15.188	17.479	1.00	0.00
ATOM	1669	N	SER	110	2.601	-14.643	14.222	1.00	0.00
ATOM	1670	CA	SER	110	1.664	-15.728	13.971	1.00	0.00
ATOM	1673	C	SER	110	1.815	-16.265	12.551	1.00	0.00
ATOM	1674	O	SER	110	1.553	-17.438	12.298	1.00	0.00
ATOM	1671	CB	SER	110	0.224	-15.275	14.217	1.00	0.00
ATOM	1672	OG	SER	110	0.149	-13.880	14.431	1.00	0.00
ATOM	1675	H	SER	110	2.287	-13.712	14.186	1.00	0.00
ATOM	1676	HA	SER	110	1.899	-16.526	14.662	1.00	0.00
ATOM	1677	1HB	SER	110	-0.165	-15.781	15.088	1.00	0.00
ATOM	1678	2HB	SER	110	-0.379	-15.523	13.359	1.00	0.00
ATOM	1679	HG	SER	110	0.688	-13.638	15.194	1.00	0.00
ATOM	1680	N	VAL	111	2.241	-15.407	11.627	1.00	0.00
ATOM	1681	CA	VAL	111	2.424	-15.813	10.236	1.00	0.00
ATOM	1685	C	VAL	111	3.621	-16.752	10.089	1.00	0.00



ATOM	1686	O	VAL	111	3.593	-17.687	9.289	1.00	0.00
ATOM	1682	CB	VAL	111	2.619	-14.601	9.296	1.00	0.00
ATOM	1683	CG1	VAL	111	2.782	-15.056	7.854	1.00	0.00
ATOM	1684	CG2	VAL	111	1.455	-13.633	9.411	1.00	0.00
ATOM	1687	H	VAL	111	2.436	-14.480	11.889	1.00	0.00
ATOM	1688	HA	VAL	111	1.532	-16.339	9.928	1.00	0.00
ATOM	1689	HB	VAL	111	3.521	-14.082	9.591	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.052	-16.102	7.835	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.558	-14.476	7.378	1.00	0.00
ATOM	1692	3HG1	VAL	111	1.851	-14.915	7.324	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.821	-12.620	9.337	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.966	-13.769	10.364	1.00	0.00
ATOM	1695	3HG2	VAL	111	0.751	-13.821	8.615	1.00	0.00
ATOM	1696	N	ASN	112	4.672	-16.507	10.866	1.00	0.00
ATOM	1697	CA	ASN	112	5.866	-17.348	10.798	1.00	0.00
ATOM	1702	C	ASN	112	5.705	-18.587	11.674	1.00	0.00
ATOM	1703	O	ASN	112	6.604	-19.425	11.756	1.00	0.00
ATOM	1698	CB	ASN	112	7.130	-16.560	11.186	1.00	0.00
ATOM	1699	CG	ASN	112	7.245	-16.269	12.677	1.00	0.00
ATOM	1700	OD1	ASN	112	7.584	-17.141	13.478	1.00	0.00
ATOM	1701	ND2	ASN	112	6.982	-15.028	13.054	1.00	0.00
ATOM	1704	H	ASN	112	4.647	-15.751	11.493	1.00	0.00
ATOM	1705	HA	ASN	112	5.967	-17.673	9.772	1.00	0.00
ATOM	1706	1HB	ASN	112	7.129	-15.619	10.656	1.00	0.00
ATOM	1707	2HB	ASN	112	7.998	-17.129	10.890	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.730	-14.374	12.364	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.050	-14.813	14.007	1.00	0.00
ATOM	1710	N	LYS	113	4.552	-18.704	12.313	1.00	0.00
ATOM	1711	CA	LYS	113	4.261	-19.841	13.170	1.00	0.00
ATOM	1717	C	LYS	113	2.967	-20.517	12.728	1.00	0.00
ATOM	1718	O	LYS	113	2.417	-20.190	11.678	1.00	0.00
ATOM	1712	CB	LYS	113	4.147	-19.392	14.630	1.00	0.00
ATOM	1713	CG	LYS	113	5.460	-19.467	15.394	1.00	0.00
ATOM	1714	CD	LYS	113	5.229	-19.558	16.894	1.00	0.00
ATOM	1715	CE	LYS	113	5.457	-18.218	17.578	1.00	0.00
ATOM	1716	NZ	LYS	113	6.892	-17.827	17.573	1.00	0.00
ATOM	1719	H	LYS	113	3.868	-18.011	12.194	1.00	0.00
ATOM	1720	HA	LYS	113	5.075	-20.545	13.078	1.00	0.00
ATOM	1721	1HB	LYS	113	3.427	-20.021	15.131	1.00	0.00
ATOM	1722	2HB	LYS	113	3.799	-18.370	14.655	1.00	0.00
ATOM	1723	1HG	LYS	113	6.039	-18.581	15.181	1.00	0.00
ATOM	1724	2HG	LYS	113	6.005	-20.341	15.070	1.00	0.00
ATOM	1725	1HD	LYS	113	5.913	-20.284	17.310	1.00	0.00
ATOM	1726	2HD	LYS	113	4.213	-19.874	17.074	1.00	0.00
ATOM	1727	1HE	LYS	113	5.115	-18.288	18.600	1.00	0.00
ATOM	1728	2HE	LYS	113	4.885	-17.462	17.060	1.00	0.00
ATOM	1729	1HZ	LYS	113	7.449	-18.493	18.155	1.00	0.00
ATOM	1730	2HZ	LYS	113	7.007	-16.862	17.966	1.00	0.00
ATOM	1731	3HZ	LYS	113	7.264	-17.837	16.604	1.00	0.00
ATOM	1732	N	GLU	114	2.482	-21.451	13.533	1.00	0.00
ATOM	1733	CA	GLU	114	1.248	-22.162	13.221	1.00	0.00
ATOM	1739	C	GLU	114	0.047	-21.420	13.799	1.00	0.00
ATOM	1740	O	GLU	114	-0.743	-21.980	14.563	1.00	0.00
ATOM	1734	CB	GLU	114	1.297	-23.587	13.776	1.00	0.00
ATOM	1735	CG	GLU	114	2.616	-24.297	13.517	1.00	0.00
ATOM	1736	CD	GLU	114	3.130	-25.038	14.732	1.00	0.00
ATOM	1737	OE1	GLU	114	2.882	-24.579	15.866	1.00	0.00
ATOM	1738	OE2	GLU	114	3.786	-26.085	14.556	1.00	0.00
ATOM	1741	H	GLU	114	2.959	-21.665	14.359	1.00	0.00
ATOM	1742	HA	GLU	114	1.149	-22.204	12.147	1.00	0.00
ATOM	1743	1HB	GLU	114	0.506	-24.166	13.322	1.00	0.00
ATOM	1744	2HB	GLU	114	1.136	-23.550	14.844	1.00	0.00
ATOM	1745	1HG	GLU	114	3.352	-23.562	13.224	1.00	0.00
ATOM	1746	2HG	GLU	114	2.476	-25.005	12.714	1.00	0.00
ATOM	1747	N	MET	115	-0.081	-20.154	13.438	1.00	0.00
ATOM	1748	CA	MET	115	-1.177	-19.327	13.921	1.00	0.00
ATOM	1753	C	MET	115	-1.690	-18.434	12.801	1.00	0.00
ATOM	1754	O	MET	115	-2.061	-17.281	13.031	1.00	0.00
ATOM	1749	CB	MET	115	-0.721	-18.470	15.108	1.00	0.00
ATOM	1750	CG	MET	115	-0.522	-19.253	16.396	1.00	0.00
ATOM	1751	SD	MET	115	1.173	-19.162	17.008	1.00	0.00
ATOM	1752	CE	MET	115	1.413	-20.836	17.602	1.00	0.00
ATOM	1755	H	MET	115	0.584	-19.761	12.828	1.00	0.00



ATOM	1756	HA	MET	115	-1.973	-19.984	14.241	1.00	0.00
ATOM	1757	1HB	MET	115	-1.462	-17.705	15.289	1.00	0.00
ATOM	1758	2HB	MET	115	0.216	-17.996	14.854	1.00	0.00
ATOM	1759	1HG	MET	115	-0.770	-20.288	16.214	1.00	0.00
ATOM	1760	2HG	MET	115	-1.183	-18.853	17.151	1.00	0.00
ATOM	1761	1HE	MET	115	2.226	-21.297	17.060	1.00	0.00
ATOM	1762	2HE	MET	115	0.509	-21.406	17.448	1.00	0.00
ATOM	1763	3HE	MET	115	1.651	-20.813	18.656	1.00	0.00
ATOM	1764	N	GLU	116	-1.703	-18.979	11.591	1.00	0.00
ATOM	1765	CA	GLU	116	-2.161	-18.249	10.411	1.00	0.00
ATOM	1771	C	GLU	116	-3.590	-17.712	10.579	1.00	0.00
ATOM	1772	O	GLU	116	-3.820	-16.515	10.401	1.00	0.00
ATOM	1766	CB	GLU	116	-2.066	-19.126	9.154	1.00	0.00
ATOM	1767	CG	GLU	116	-0.869	-20.067	9.147	1.00	0.00
ATOM	1768	CD	GLU	116	-1.223	-21.464	9.619	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.578	-21.616	10.808	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.150	-22.406	8.805	1.00	0.00
ATOM	1773	H	GLU	116	-1.394	-19.913	11.484	1.00	0.00
ATOM	1774	HA	GLU	116	-1.500	-17.402	10.286	1.00	0.00
ATOM	1775	1HB	GLU	116	-1.995	-18.483	8.289	1.00	0.00
ATOM	1776	2HB	GLU	116	-2.964	-19.721	9.075	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.108	-19.664	9.798	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.484	-20.132	8.140	1.00	0.00
ATOM	1779	N	PRO	117	-4.582	-18.568	10.926	1.00	0.00
ATOM	1780	CA	PRO	117	-5.971	-18.122	11.101	1.00	0.00
ATOM	1784	C	PRO	117	-6.116	-17.069	12.198	1.00	0.00
ATOM	1785	O	PRO	117	-7.030	-16.246	12.165	1.00	0.00
ATOM	1781	CB	PRO	117	-6.720	-19.399	11.497	1.00	0.00
ATOM	1782	CG	PRO	117	-5.854	-20.516	11.031	1.00	0.00
ATOM	1783	CD	PRO	117	-4.447	-20.019	11.161	1.00	0.00
ATOM	1786	HA	PRO	117	-6.380	-17.736	10.180	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.685	-19.420	11.012	1.00	0.00
ATOM	1788	2HB	PRO	117	-6.850	-19.424	12.570	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.077	-20.748	9.999	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.005	-21.385	11.654	1.00	0.00
ATOM	1791	1HD	PRO	117	-3.813	-20.473	10.413	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.066	-20.216	12.154	1.00	0.00
ATOM	1793	N	LEU	118	-5.207	-17.097	13.166	1.00	0.00
ATOM	1794	CA	LEU	118	-5.236	-16.148	14.273	1.00	0.00
ATOM	1799	C	LEU	118	-4.859	-14.744	13.810	1.00	0.00
ATOM	1800	O	LEU	118	-5.266	-13.755	14.418	1.00	0.00
ATOM	1795	CB	LEU	118	-4.298	-16.606	15.395	1.00	0.00
ATOM	1796	CG	LEU	118	-4.975	-17.358	16.539	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.031	-18.849	16.241	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.239	-17.099	17.844	1.00	0.00
ATOM	1801	H	LEU	118	-4.497	-17.772	13.132	1.00	0.00
ATOM	1802	HA	LEU	118	-6.246	-16.122	14.655	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.811	-15.738	15.808	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.546	-17.252	14.967	1.00	0.00
ATOM	1805	HG	LEU	118	-5.987	-17.000	16.649	1.00	0.00
ATOM	1806	1HD1	LEU	118	-5.475	-19.367	17.079	1.00	0.00
ATOM	1807	2HD1	LEU	118	-4.031	-19.221	16.076	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.629	-19.017	15.357	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.705	-16.276	18.364	1.00	0.00
ATOM	1810	2HD2	LEU	118	-3.209	-16.854	17.632	1.00	0.00
ATOM	1811	3HD2	LEU	118	-4.279	-17.984	18.461	1.00	0.00
ATOM	1812	N	VAL	119	-4.088	-14.665	12.730	1.00	0.00
ATOM	1813	CA	VAL	119	-3.656	-13.381	12.179	1.00	0.00
ATOM	1817	C	VAL	119	-4.854	-12.525	11.781	1.00	0.00
ATOM	1818	O	VAL	119	-4.973	-11.371	12.197	1.00	0.00
ATOM	1814	CB	VAL	119	-2.745	-13.579	10.946	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.397	-12.246	10.299	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.482	-14.329	11.329	1.00	0.00
ATOM	1819	H	VAL	119	-3.801	-15.493	12.287	1.00	0.00
ATOM	1820	HA	VAL	119	-3.093	-12.860	12.939	1.00	0.00
ATOM	1821	HB	VAL	119	-3.281	-14.173	10.220	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.706	-12.411	9.486	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.943	-11.597	11.033	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.296	-11.785	9.917	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.620	-13.719	11.103	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.428	-15.251	10.770	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.501	-14.548	12.386	1.00	0.00
ATOM	1828	N	GLY	120	-5.743	-13.099	10.977	1.00	0.00



ATOM	1829	CA	GLY	120	-6.920	-12.374	10.543	1.00	0.00
ATOM	1830	C	GLY	120	-7.826	-12.034	11.702	1.00	0.00
ATOM	1831	O	GLY	120	-8.461	-10.980	11.711	1.00	0.00
ATOM	1832	H	GLY	120	-5.599	-14.023	10.681	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.463	-12.969	9.833	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.608	-11.457	10.066	1.00	0.00
ATOM	1835	N	GLN	121	-7.870	-12.918	12.693	1.00	0.00
ATOM	1836	CA	GLN	121	-8.690	-12.696	13.872	1.00	0.00
ATOM	1842	C	GLN	121	-8.205	-11.457	14.602	1.00	0.00
ATOM	1843	O	GLN	121	-8.973	-10.543	14.844	1.00	0.00
ATOM	1837	CB	GLN	121	-8.653	-13.903	14.815	1.00	0.00
ATOM	1838	CG	GLN	121	-9.124	-15.211	14.194	1.00	0.00
ATOM	1839	CD	GLN	121	-10.202	-15.025	13.145	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.931	-15.076	11.946	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.432	-14.821	13.586	1.00	0.00
ATOM	1844	H	GLN	121	-7.330	-13.732	12.630	1.00	0.00
ATOM	1845	HA	GLN	121	-9.707	-12.529	13.548	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.282	-13.692	15.668	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.640	-14.040	15.159	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.512	-15.844	14.979	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.278	-15.697	13.731	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.583	-14.801	14.552	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.148	-14.697	12.919	1.00	0.00
ATOM	1852	N	VAL	122	-6.920	-11.418	14.927	1.00	0.00
ATOM	1853	CA	VAL	122	-6.347	-10.263	15.611	1.00	0.00
ATOM	1857	C	VAL	122	-6.597	-8.996	14.802	1.00	0.00
ATOM	1858	O	VAL	122	-6.868	-7.931	15.360	1.00	0.00
ATOM	1854	CB	VAL	122	-4.826	-10.439	15.841	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.227	-9.212	16.511	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.545	-11.684	16.668	1.00	0.00
ATOM	1859	H	VAL	122	-6.339	-12.176	14.689	1.00	0.00
ATOM	1860	HA	VAL	122	-6.841	-10.162	16.572	1.00	0.00
ATOM	1861	HB	VAL	122	-4.350	-10.563	14.877	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.925	-8.390	16.445	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.307	-8.945	16.013	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.025	-9.431	17.548	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.180	-11.686	17.541	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.510	-11.684	16.977	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.744	-12.563	16.074	1.00	0.00
ATOM	1868	N	GLN	123	-6.526	-9.128	13.486	1.00	0.00
ATOM	1869	CA	GLN	123	-6.760	-8.006	12.593	1.00	0.00
ATOM	1875	C	GLN	123	-8.181	-7.473	12.753	1.00	0.00
ATOM	1876	O	GLN	123	-8.387	-6.265	12.880	1.00	0.00
ATOM	1870	CB	GLN	123	-6.520	-8.426	11.140	1.00	0.00
ATOM	1871	CG	GLN	123	-5.994	-7.301	10.265	1.00	0.00
ATOM	1872	CD	GLN	123	-5.216	-7.807	9.069	1.00	0.00
ATOM	1873	OE1	GLN	123	-5.449	-7.381	7.937	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.286	-8.724	9.311	1.00	0.00
ATOM	1877	H	GLN	123	-6.321	-10.009	13.105	1.00	0.00
ATOM	1878	HA	GLN	123	-6.065	-7.225	12.855	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.451	-8.778	10.719	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.802	-9.235	11.123	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.346	-6.675	10.860	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.831	-6.717	9.911	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.156	-9.018	10.239	1.00	0.00
ATOM	1884	2HE2	GLN	123	-3.766	-9.064	8.556	1.00	0.00
ATOM	1885	N	GLU	124	-9.157	-8.373	12.755	1.00	0.00
ATOM	1886	CA	GLU	124	-10.543	-7.965	12.903	1.00	0.00
ATOM	1892	C	GLU	124	-10.847	-7.572	14.345	1.00	0.00
ATOM	1893	O	GLU	124	-11.604	-6.633	14.568	1.00	0.00
ATOM	1887	CB	GLU	124	-11.507	-9.044	12.414	1.00	0.00
ATOM	1888	CG	GLU	124	-11.306	-10.388	13.071	1.00	0.00
ATOM	1889	CD	GLU	124	-12.343	-11.400	12.634	1.00	0.00
ATOM	1890	OE1	GLU	124	-12.143	-12.048	11.581	1.00	0.00
ATOM	1891	OE2	GLU	124	-13.375	-11.538	13.325	1.00	0.00
ATOM	1894	H	GLU	124	-8.939	-9.327	12.655	1.00	0.00
ATOM	1895	HA	GLU	124	-10.678	-7.086	12.287	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.381	-9.167	11.349	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.519	-8.722	12.611	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.364	-10.260	14.144	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.325	-10.756	12.809	1.00	0.00
ATOM	1900	N	TRP	125	-10.240	-8.255	15.325	1.00	0.00
ATOM	1901	CA	TRP	125	-10.464	-7.896	16.728	1.00	0.00



ATOM	1912	C	TRP	125	-10.073	-6.442	16.922	1.00	0.00
ATOM	1913	O	TRP	125	-10.705	-5.694	17.670	1.00	0.00
ATOM	1902	CB	TRP	125	-9.613	-8.728	17.707	1.00	0.00
ATOM	1903	CG	TRP	125	-9.774	-10.220	17.658	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.823	-10.949	17.171	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.817	-11.170	18.138	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.561	-12.295	17.309	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.332	-12.452	17.890	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.563	-11.054	18.748	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.634	-13.612	18.224	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.876	-12.202	19.083	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.408	-13.468	18.814	1.00	0.00
ATOM	1914	H	TRP	125	-9.617	-8.994	15.101	1.00	0.00
ATOM	1915	HA	TRP	125	-11.514	-8.016	16.950	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.833	-8.409	18.712	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.573	-8.521	17.509	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.717	-10.522	16.745	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.155	-13.024	17.036	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.140	-10.084	18.980	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.032	-14.595	18.022	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.905	-12.130	19.550	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.838	-14.341	19.106	1.00	0.00
ATOM	1924	N	MET	126	-9.009	-6.064	16.230	1.00	0.00
ATOM	1925	CA	MET	126	-8.482	-4.709	16.303	1.00	0.00
ATOM	1930	C	MET	126	-9.352	-3.727	15.531	1.00	0.00
ATOM	1931	O	MET	126	-9.770	-2.701	16.071	1.00	0.00
ATOM	1926	CB	MET	126	-7.048	-4.670	15.769	1.00	0.00
ATOM	1927	CG	MET	126	-6.444	-3.274	15.717	1.00	0.00
ATOM	1928	SD	MET	126	-5.102	-3.149	14.520	1.00	0.00
ATOM	1929	CE	MET	126	-3.933	-4.316	15.208	1.00	0.00
ATOM	1932	H	MET	126	-8.561	-6.731	15.649	1.00	0.00
ATOM	1933	HA	MET	126	-8.475	-4.416	17.340	1.00	0.00
ATOM	1934	1HB	MET	126	-7.039	-5.080	14.770	1.00	0.00
ATOM	1935	2HB	MET	126	-6.425	-5.283	16.404	1.00	0.00
ATOM	1936	1HG	MET	126	-6.060	-3.026	16.695	1.00	0.00
ATOM	1937	2HG	MET	126	-7.217	-2.571	15.443	1.00	0.00
ATOM	1938	1HE	MET	126	-3.050	-4.349	14.588	1.00	0.00
ATOM	1939	2HE	MET	126	-4.383	-5.297	15.245	1.00	0.00
ATOM	1940	3HE	MET	126	-3.660	-4.007	16.207	1.00	0.00
ATOM	1941	N	VAL	127	-9.611	-4.030	14.267	1.00	0.00
ATOM	1942	CA	VAL	127	-10.413	-3.148	13.429	1.00	0.00
ATOM	1946	C	VAL	127	-11.835	-2.983	13.970	1.00	0.00
ATOM	1947	O	VAL	127	-12.421	-1.909	13.840	1.00	0.00
ATOM	1943	CB	VAL	127	-10.444	-3.612	11.948	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.383	-4.790	11.740	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.839	-2.458	11.037	1.00	0.00
ATOM	1948	H	VAL	127	-9.240	-4.856	13.884	1.00	0.00
ATOM	1949	HA	VAL	127	-9.937	-2.178	13.455	1.00	0.00
ATOM	1950	HB	VAL	127	-9.447	-3.925	11.673	1.00	0.00
ATOM	1951	1HG1	VAL	127	-10.967	-5.669	12.212	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.503	-4.971	10.682	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.343	-4.565	12.179	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.636	-1.892	11.497	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.177	-2.850	10.090	1.00	0.00
ATOM	1956	3HG2	VAL	127	-9.986	-1.817	10.877	1.00	0.00
ATOM	1957	N	GLU	128	-12.391	-4.024	14.590	1.00	0.00
ATOM	1958	CA	GLU	128	-13.738	-3.930	15.135	1.00	0.00
ATOM	1964	C	GLU	128	-13.750	-3.019	16.349	1.00	0.00
ATOM	1965	O	GLU	128	-14.577	-2.110	16.449	1.00	0.00
ATOM	1959	CB	GLU	128	-14.276	-5.310	15.501	1.00	0.00
ATOM	1960	CG	GLU	128	-14.722	-6.124	14.299	1.00	0.00
ATOM	1961	CD	GLU	128	-15.769	-7.157	14.648	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.166	-7.235	15.824	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.202	-7.897	13.738	1.00	0.00
ATOM	1966	H	GLU	128	-11.885	-4.871	14.689	1.00	0.00
ATOM	1967	HA	GLU	128	-14.365	-3.494	14.377	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.121	-5.193	16.164	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.501	-5.862	16.014	1.00	0.00
ATOM	1970	1HG	GLU	128	-13.860	-6.629	13.886	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.131	-5.453	13.560	1.00	0.00
ATOM	1972	N	TYR	129	-12.813	-3.251	17.256	1.00	0.00
ATOM	1973	CA	TYR	129	-12.696	-2.441	18.459	1.00	0.00
ATOM	1982	C	TYR	129	-12.501	-0.976	18.092	1.00	0.00



ATOM	1983	O	TYR	129	-13.022	-0.069	18.748	1.00	0.00
ATOM	1974	CB	TYR	129	-11.503	-2.915	19.291	1.00	0.00
ATOM	1975	CG	TYR	129	-11.535	-2.429	20.720	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.022	-1.181	21.058	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.090	-3.204	21.728	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.061	-0.724	22.358	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.137	-2.750	23.030	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.621	-1.510	23.339	1.00	0.00
ATOM	1981	OH	TYR	129	-11.674	-1.049	24.630	1.00	0.00
ATOM	1984	H	TYR	129	-12.172	-3.984	17.106	1.00	0.00
ATOM	1985	HA	TYR	129	-13.601	-2.550	19.034	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.592	-2.553	18.837	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.487	-3.993	19.301	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.493	-4.176	21.482	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.583	-0.568	20.285	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.574	-3.367	23.802	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.657	0.248	22.600	1.00	0.00
ATOM	1992	HH	TYR	129	-12.074	-1.729	25.201	1.00	0.00
ATOM	1993	N	LEU	130	-11.737	-0.762	17.038	1.00	0.00
ATOM	1994	CA	LEU	130	-11.437	0.578	16.567	1.00	0.00
ATOM	1999	C	LEU	130	-12.644	1.239	15.913	1.00	0.00
ATOM	2000	O	LEU	130	-13.014	2.352	16.273	1.00	0.00
ATOM	1995	CB	LEU	130	-10.278	0.545	15.579	1.00	0.00
ATOM	1996	CG	LEU	130	-8.989	1.196	16.075	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.908	0.151	16.291	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.527	2.260	15.094	1.00	0.00
ATOM	2001	H	LEU	130	-11.354	-1.538	16.565	1.00	0.00
ATOM	2002	HA	LEU	130	-11.142	1.168	17.423	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.591	1.057	14.684	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.069	-0.487	15.334	1.00	0.00
ATOM	2005	HG	LEU	130	-9.180	1.675	17.024	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.343	-0.732	16.738	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.148	0.549	16.945	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.464	-0.309	15.340	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.541	2.601	15.372	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.215	3.091	15.114	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.496	1.842	14.099	1.00	0.00
ATOM	2012	N	GLU	131	-13.240	0.569	14.943	1.00	0.00
ATOM	2013	CA	GLU	131	-14.387	1.122	14.228	1.00	0.00
ATOM	2019	C	GLU	131	-15.574	1.384	15.154	1.00	0.00
ATOM	2020	O	GLU	131	-16.381	2.275	14.899	1.00	0.00
ATOM	2014	CB	GLU	131	-14.800	0.187	13.092	1.00	0.00
ATOM	2015	CG	GLU	131	-13.870	0.254	11.889	1.00	0.00
ATOM	2016	CD	GLU	131	-14.446	-0.426	10.664	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.395	-1.223	10.813	1.00	0.00
ATOM	2018	OE2	GLU	131	-13.952	-0.159	9.547	1.00	0.00
ATOM	2021	H	GLU	131	-12.893	-0.315	14.680	1.00	0.00
ATOM	2022	HA	GLU	131	-14.075	2.062	13.801	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.796	0.451	12.765	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.807	-0.828	13.460	1.00	0.00
ATOM	2025	1HG	GLU	131	-12.938	-0.230	12.145	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.683	1.290	11.652	1.00	0.00
ATOM	2027	N	THR	132	-15.689	0.605	16.216	1.00	0.00
ATOM	2028	CA	THR	132	-16.796	0.761	17.149	1.00	0.00
ATOM	2032	C	THR	132	-16.541	1.835	18.212	1.00	0.00
ATOM	2033	O	THR	132	-17.472	2.533	18.619	1.00	0.00
ATOM	2029	CB	THR	132	-17.118	-0.575	17.850	1.00	0.00
ATOM	2030	OG1	THR	132	-17.132	-1.635	16.888	1.00	0.00
ATOM	2031	CG2	THR	132	-18.467	-0.516	18.556	1.00	0.00
ATOM	2034	H	THR	132	-15.025	-0.102	16.368	1.00	0.00
ATOM	2035	HA	THR	132	-17.665	1.048	16.574	1.00	0.00
ATOM	2036	HB	THR	132	-16.350	-0.772	18.584	1.00	0.00
ATOM	2037	HG1	THR	132	-16.227	-1.843	16.622	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.618	0.472	18.965	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.486	-1.243	19.355	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.254	-0.738	17.850	1.00	0.00
ATOM	2041	N	ARG	133	-15.307	1.957	18.697	1.00	0.00
ATOM	2042	CA	ARG	133	-15.028	2.939	19.749	1.00	0.00
ATOM	2050	C	ARG	133	-13.889	3.902	19.418	1.00	0.00
ATOM	2051	O	ARG	133	-14.000	5.095	19.692	1.00	0.00
ATOM	2043	CB	ARG	133	-14.724	2.238	21.082	1.00	0.00
ATOM	2044	CG	ARG	133	-15.344	0.855	21.229	1.00	0.00
ATOM	2045	CD	ARG	133	-15.882	0.636	22.634	1.00	0.00



ATOM	2046	NE	ARG	133	-15.809	-0.767	23.047	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.118	-1.198	24.106	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.481	-0.335	24.885	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.084	-2.491	24.403	1.00	0.00
ATOM	2052	H	ARG	133	-14.591	1.368	18.374	1.00	0.00
ATOM	2053	HA	ARG	133	-15.921	3.528	19.873	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.089	2.859	21.887	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.654	2.135	21.180	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.590	0.109	21.020	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.157	0.756	20.523	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.914	0.955	22.665	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.302	1.232	23.324	1.00	0.00
ATOM	2060	HE	ARG	133	-16.302	-1.424	22.498	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.514	0.645	24.689	1.00	0.00
ATOM	2062	2HH1	ARG	133	-13.953	-0.668	25.674	1.00	0.00
ATOM	2063	1HH2	ARG	133	-15.577	-3.154	23.840	1.00	0.00
ATOM	2064	2HH2	ARG	133	-14.542	-2.811	25.198	1.00	0.00
ATOM	2065	N	LEU	134	-12.789	3.403	18.865	1.00	0.00
ATOM	2066	CA	LEU	134	-11.648	4.268	18.558	1.00	0.00
ATOM	2071	C	LEU	134	-12.029	5.379	17.585	1.00	0.00
ATOM	2072	O	LEU	134	-11.717	6.543	17.826	1.00	0.00
ATOM	2067	CB	LEU	134	-10.484	3.455	18.000	1.00	0.00
ATOM	2068	CG	LEU	134	-9.320	3.223	18.966	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.564	4.520	19.219	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.819	2.624	20.272	1.00	0.00
ATOM	2073	H	LEU	134	-12.731	2.441	18.678	1.00	0.00
ATOM	2074	HA	LEU	134	-11.334	4.724	19.485	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.101	3.968	17.130	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.862	2.493	17.691	1.00	0.00
ATOM	2077	HG	LEU	134	-8.633	2.521	18.520	1.00	0.00
ATOM	2078	1HD1	LEU	134	-8.161	4.517	20.222	1.00	0.00
ATOM	2079	2HD1	LEU	134	-9.235	5.359	19.104	1.00	0.00
ATOM	2080	3HD1	LEU	134	-7.756	4.607	18.508	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.503	3.312	20.748	1.00	0.00
ATOM	2082	2HD2	LEU	134	-8.981	2.438	20.928	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.330	1.693	20.069	1.00	0.00
ATOM	2084	N	ALA	135	-12.701	5.014	16.494	1.00	0.00
ATOM	2085	CA	ALA	135	-13.128	5.978	15.491	1.00	0.00
ATOM	2087	C	ALA	135	-13.906	7.125	16.125	1.00	0.00
ATOM	2088	O	ALA	135	-13.768	8.274	15.709	1.00	0.00
ATOM	2086	CB	ALA	135	-13.972	5.294	14.428	1.00	0.00
ATOM	2089	H	ALA	135	-12.913	4.067	16.357	1.00	0.00
ATOM	2090	HA	ALA	135	-12.245	6.377	15.015	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.899	5.832	14.304	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.181	4.279	14.732	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.433	5.286	13.491	1.00	0.00
ATOM	2094	N	ASP	136	-14.704	6.815	17.144	1.00	0.00
ATOM	2095	CA	ASP	136	-15.480	7.838	17.838	1.00	0.00
ATOM	2100	C	ASP	136	-14.551	8.836	18.505	1.00	0.00
ATOM	2101	O	ASP	136	-14.663	10.044	18.276	1.00	0.00
ATOM	2096	CB	ASP	136	-16.409	7.205	18.873	1.00	0.00
ATOM	2097	CG	ASP	136	-17.762	7.879	18.923	1.00	0.00
ATOM	2098	OD1	ASP	136	-17.888	9.008	18.399	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.704	7.283	19.484	1.00	0.00
ATOM	2102	H	ASP	136	-14.762	5.880	17.448	1.00	0.00
ATOM	2103	HA	ASP	136	-16.067	8.368	17.105	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.953	7.279	19.851	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.555	6.163	18.628	1.00	0.00
ATOM	2106	N	TRP	137	-13.613	8.330	19.300	1.00	0.00
ATOM	2107	CA	TRP	137	-12.646	9.182	19.961	1.00	0.00
ATOM	2118	C	TRP	137	-11.879	9.988	18.918	1.00	0.00
ATOM	2119	O	TRP	137	-11.718	11.201	19.041	1.00	0.00
ATOM	2108	CB	TRP	137	-11.676	8.323	20.786	1.00	0.00
ATOM	2109	CG	TRP	137	-10.592	9.114	21.455	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.580	9.548	22.744	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.360	9.560	20.871	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.424	10.244	22.999	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.662	10.264	21.864	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.783	9.434	19.605	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.422	10.840	21.632	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.550	10.008	19.374	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.879	10.701	20.385	1.00	0.00
ATOM	2120	H	TRP	137	-13.555	7.354	19.428	1.00	0.00



ATOM	2121	HA	TRP	137	-13.179	9.856	20.616	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.209	7.597	20.135	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.230	7.804	21.553	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.368	9.359	23.452	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.186	10.663	23.856	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.287	8.901	18.811	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.888	11.369	22.400	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.090	9.920	18.401	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.915	11.135	20.160	1.00	0.00
ATOM	2130	N	ILE	138	-11.405	9.289	17.895	1.00	0.00
ATOM	2131	CA	ILE	138	-10.634	9.898	16.821	1.00	0.00
ATOM	2136	C	ILE	138	-11.400	11.018	16.120	1.00	0.00
ATOM	2137	O	ILE	138	-10.853	12.097	15.890	1.00	0.00
ATOM	2132	CB	ILE	138	-10.183	8.831	15.791	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.994	8.047	16.350	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.814	9.471	14.458	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.018	6.576	16.008	1.00	0.00
ATOM	2138	H	ILE	138	-11.570	8.319	17.871	1.00	0.00
ATOM	2139	HA	ILE	138	-9.745	10.322	17.263	1.00	0.00
ATOM	2140	HB	ILE	138	-11.004	8.151	15.623	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.989	8.138	17.427	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.078	8.463	15.955	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.006	8.919	14.005	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.506	10.493	14.624	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.673	9.456	13.802	1.00	0.00
ATOM	2146	1HD1	ILE	138	-10.024	6.283	15.739	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.694	6.003	16.864	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.355	6.389	15.177	1.00	0.00
ATOM	2149	N	HIS	139	-12.661	10.765	15.782	1.00	0.00
ATOM	2150	CA	HIS	139	-13.480	11.767	15.099	1.00	0.00
ATOM	2157	C	HIS	139	-13.744	12.975	15.990	1.00	0.00
ATOM	2158	O	HIS	139	-13.892	14.093	15.503	1.00	0.00
ATOM	2151	CB	HIS	139	-14.811	11.167	14.635	1.00	0.00
ATOM	2152	CG	HIS	139	-14.727	10.468	13.312	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.832	11.121	12.107	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.547	9.162	13.009	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.720	10.249	11.125	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.550	9.048	11.641	1.00	0.00
ATOM	2159	H	HIS	139	-13.052	9.884	15.995	1.00	0.00
ATOM	2160	HA	HIS	139	-12.930	12.098	14.230	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.541	11.957	14.546	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.151	10.450	15.366	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.985	12.095	11.988	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.422	8.355	13.718	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.740	10.479	10.072	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.756	8.210	11.158	1.00	0.00
ATOM	2167	N	SER	140	-13.813	12.749	17.292	1.00	0.00
ATOM	2168	CA	SER	140	-14.075	13.831	18.235	1.00	0.00
ATOM	2171	C	SER	140	-12.797	14.575	18.638	1.00	0.00
ATOM	2172	O	SER	140	-12.854	15.735	19.051	1.00	0.00
ATOM	2169	CB	SER	140	-14.777	13.274	19.474	1.00	0.00
ATOM	2170	OG	SER	140	-15.792	12.355	19.105	1.00	0.00
ATOM	2173	H	SER	140	-13.703	11.829	17.629	1.00	0.00
ATOM	2174	HA	SER	140	-14.736	14.531	17.748	1.00	0.00
ATOM	2175	1HB	SER	140	-15.224	14.084	20.030	1.00	0.00
ATOM	2176	2HB	SER	140	-14.055	12.763	20.094	1.00	0.00
ATOM	2177	HG	SER	140	-15.387	11.583	18.684	1.00	0.00
ATOM	2178	N	SER	141	-11.654	13.908	18.542	1.00	0.00
ATOM	2179	CA	SER	141	-10.386	14.517	18.924	1.00	0.00
ATOM	2182	C	SER	141	-9.877	15.497	17.873	1.00	0.00
ATOM	2183	O	SER	141	-9.623	16.661	18.173	1.00	0.00
ATOM	2180	CB	SER	141	-9.333	13.440	19.197	1.00	0.00
ATOM	2181	OG	SER	141	-8.741	13.620	20.472	1.00	0.00
ATOM	2184	H	SER	141	-11.665	12.977	18.230	1.00	0.00
ATOM	2185	HA	SER	141	-10.557	15.061	19.830	1.00	0.00
ATOM	2186	1HB	SER	141	-8.559	13.495	18.444	1.00	0.00
ATOM	2187	2HB	SER	141	-9.799	12.467	19.163	1.00	0.00
ATOM	2188	HG	SER	141	-8.075	14.323	20.417	1.00	0.00
ATOM	2189	N	GLY	142	-9.722	15.020	16.654	1.00	0.00
ATOM	2190	CA	GLY	142	-9.231	15.864	15.581	1.00	0.00
ATOM	2191	C	GLY	142	-9.247	15.140	14.260	1.00	0.00
ATOM	2192	O	GLY	142	-9.053	15.739	13.201	1.00	0.00
ATOM	2193	H	GLY	142	-9.938	14.085	16.481	1.00	0.00



ATOM	2194	1HA	GLY	142	-8.218	16.164	15.804	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.848	16.743	15.507	1.00	0.00
ATOM	2196	N	GLY	143	-9.491	13.845	14.326	1.00	0.00
ATOM	2197	CA	GLY	143	-9.544	13.042	13.126	1.00	0.00
ATOM	2198	C	GLY	143	-8.217	12.433	12.769	1.00	0.00
ATOM	2199	O	GLY	143	-7.180	12.819	13.307	1.00	0.00
ATOM	2200	H	GLY	143	-9.650	13.429	15.205	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.870	13.659	12.308	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.253	12.251	13.265	1.00	0.00
ATOM	2203	N	TRP	144	-8.252	11.484	11.845	1.00	0.00
ATOM	2204	CA	TRP	144	-7.048	10.812	11.389	1.00	0.00
ATOM	2215	C	TRP	144	-6.093	11.823	10.769	1.00	0.00
ATOM	2216	O	TRP	144	-4.878	11.629	10.784	1.00	0.00
ATOM	2205	CB	TRP	144	-7.416	9.715	10.386	1.00	0.00
ATOM	2206	CG	TRP	144	-8.120	8.547	11.019	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.468	8.299	11.043	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.504	7.467	11.728	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.723	7.129	11.728	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.531	6.601	12.154	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.180	7.148	12.043	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.274	5.441	12.877	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.927	5.996	12.761	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.969	5.153	13.171	1.00	0.00
ATOM	2217	H	TRP	144	-9.113	11.235	11.450	1.00	0.00
ATOM	2218	HA	TRP	144	-6.568	10.365	12.245	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.515	9.351	9.917	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.069	10.131	9.632	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.213	8.938	10.593	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.616	6.733	11.885	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.365	7.785	11.736	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.065	4.779	13.199	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.906	5.730	13.011	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.724	4.263	13.731	1.00	0.00
ATOM	2227	N	ALA	145	-6.662	12.914	10.256	1.00	0.00
ATOM	2228	CA	ALA	145	-5.882	13.985	9.651	1.00	0.00
ATOM	2230	C	ALA	145	-5.039	14.701	10.703	1.00	0.00
ATOM	2231	O	ALA	145	-3.929	15.154	10.413	1.00	0.00
ATOM	2229	CB	ALA	145	-6.789	14.977	8.936	1.00	0.00
ATOM	2232	H	ALA	145	-7.637	13.005	10.303	1.00	0.00
ATOM	2233	HA	ALA	145	-5.223	13.541	8.920	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.677	15.148	9.526	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.069	14.580	7.971	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.263	15.911	8.801	1.00	0.00
ATOM	2237	N	GLU	146	-5.552	14.783	11.935	1.00	0.00
ATOM	2238	CA	GLU	146	-4.810	15.426	13.019	1.00	0.00
ATOM	2244	C	GLU	146	-3.562	14.601	13.303	1.00	0.00
ATOM	2245	O	GLU	146	-2.470	15.134	13.504	1.00	0.00
ATOM	2239	CB	GLU	146	-5.687	15.566	14.282	1.00	0.00
ATOM	2240	CG	GLU	146	-4.953	15.300	15.594	1.00	0.00
ATOM	2241	CD	GLU	146	-5.527	16.070	16.769	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.417	17.312	16.784	1.00	0.00
ATOM	2243	OE2	GLU	146	-6.082	15.434	17.692	1.00	0.00
ATOM	2246	H	GLU	146	-6.439	14.384	12.123	1.00	0.00
ATOM	2247	HA	GLU	146	-4.509	16.407	12.680	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.515	14.876	14.213	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.078	16.570	14.318	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.917	15.580	15.473	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.014	14.245	15.815	1.00	0.00
ATOM	2252	N	PHE	147	-3.743	13.290	13.276	1.00	0.00
ATOM	2253	CA	PHE	147	-2.659	12.347	13.496	1.00	0.00
ATOM	2261	C	PHE	147	-1.634	12.439	12.364	1.00	0.00
ATOM	2262	O	PHE	147	-0.431	12.319	12.599	1.00	0.00
ATOM	2254	CB	PHE	147	-3.227	10.926	13.593	1.00	0.00
ATOM	2255	CG	PHE	147	-2.206	9.861	13.894	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.162	10.099	14.776	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.292	8.620	13.285	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.227	9.117	15.043	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.359	7.636	13.547	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.326	7.885	14.426	1.00	0.00
ATOM	2263	H	PHE	147	-4.640	12.948	13.082	1.00	0.00
ATOM	2264	HA	PHE	147	-2.172	12.603	14.430	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.698	10.675	12.653	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.969	10.897	14.376	1.00	0.00



ATOM	2267	HD1	PHE	147	-3.100	8.424	12.595	1.00	0.00
ATOM	2268	HD2	PHE	147	-1.084	11.062	15.259	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.440	6.673	13.065	1.00	0.00
ATOM	2270	HE2	PHE	147	0.582	9.314	15.731	1.00	0.00
ATOM	2271	HZ	PHE	147	0.409	7.117	14.629	1.00	0.00
ATOM	2272	N	THR	148	-2.108	12.664	11.136	1.00	0.00
ATOM	2273	CA	THR	148	-1.208	12.778	9.988	1.00	0.00
ATOM	2277	C	THR	148	-0.295	13.991	10.122	1.00	0.00
ATOM	2278	O	THR	148	0.839	13.977	9.660	1.00	0.00
ATOM	2274	CB	THR	148	-1.968	12.871	8.654	1.00	0.00
ATOM	2275	OG1	THR	148	-3.309	12.412	8.818	1.00	0.00
ATOM	2276	CG2	THR	148	-1.272	12.049	7.578	1.00	0.00
ATOM	2279	H	THR	148	-3.081	12.758	11.002	1.00	0.00
ATOM	2280	HA	THR	148	-0.593	11.889	9.964	1.00	0.00
ATOM	2281	HB	THR	148	-1.986	13.902	8.338	1.00	0.00
ATOM	2282	HG1	THR	148	-3.320	11.650	9.407	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.448	11.503	8.016	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.898	12.707	6.807	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.975	11.352	7.148	1.00	0.00
ATOM	2286	N	ALA	149	-0.786	15.038	10.762	1.00	0.00
ATOM	2287	CA	ALA	149	0.014	16.237	10.954	1.00	0.00
ATOM	2289	C	ALA	149	0.874	16.098	12.203	1.00	0.00
ATOM	2290	O	ALA	149	1.859	16.807	12.382	1.00	0.00
ATOM	2288	CB	ALA	149	-0.875	17.466	11.043	1.00	0.00
ATOM	2291	H	ALA	149	-1.703	15.003	11.120	1.00	0.00
ATOM	2292	HA	ALA	149	0.663	16.343	10.096	1.00	0.00
ATOM	2293	1HB	ALA	149	-0.509	18.119	11.822	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.887	17.164	11.271	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.861	17.991	10.099	1.00	0.00
ATOM	2296	N	LEU	150	0.486	15.176	13.064	1.00	0.00
ATOM	2297	CA	LEU	150	1.206	14.931	14.304	1.00	0.00
ATOM	2302	C	LEU	150	2.441	14.072	14.062	1.00	0.00
ATOM	2303	O	LEU	150	3.499	14.298	14.654	1.00	0.00
ATOM	2298	CB	LEU	150	0.284	14.239	15.307	1.00	0.00
ATOM	2299	CG	LEU	150	-0.508	15.176	16.213	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.682	14.444	16.837	1.00	0.00
ATOM	2301	CD2	LEU	150	0.383	15.763	17.293	1.00	0.00
ATOM	2304	H	LEU	150	-0.315	14.644	12.865	1.00	0.00
ATOM	2305	HA	LEU	150	1.513	15.886	14.704	1.00	0.00
ATOM	2306	1HB	LEU	150	0.875	13.596	15.929	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.413	13.629	14.757	1.00	0.00
ATOM	2308	HG	LEU	150	-0.896	15.986	15.622	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.584	15.016	16.685	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.506	14.322	17.896	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.787	13.473	16.376	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.292	15.185	17.366	1.00	0.00
ATOM	2313	2HD2	LEU	150	-0.136	15.738	18.241	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.626	16.785	17.043	1.00	0.00
ATOM	2315	N	TYR	151	2.295	13.070	13.207	1.00	0.00
ATOM	2316	CA	TYR	151	3.391	12.160	12.908	1.00	0.00
ATOM	2325	C	TYR	151	3.665	12.080	11.410	1.00	0.00
ATOM	2326	O	TYR	151	4.121	11.055	10.917	1.00	0.00
ATOM	2317	CB	TYR	151	3.063	10.763	13.439	1.00	0.00
ATOM	2318	CG	TYR	151	3.754	10.413	14.741	1.00	0.00
ATOM	2319	CD1	TYR	151	5.128	10.210	14.788	1.00	0.00
ATOM	2320	CD2	TYR	151	3.031	10.275	15.920	1.00	0.00
ATOM	2321	CE1	TYR	151	5.760	9.881	15.973	1.00	0.00
ATOM	2322	CE2	TYR	151	3.656	9.945	17.108	1.00	0.00
ATOM	2323	CZ	TYR	151	5.021	9.750	17.130	1.00	0.00
ATOM	2324	OH	TYR	151	5.648	9.422	18.311	1.00	0.00
ATOM	2327	H	TYR	151	1.422	12.928	12.778	1.00	0.00
ATOM	2328	HA	TYR	151	4.275	12.526	13.407	1.00	0.00
ATOM	2329	1HB	TYR	151	3.355	10.030	12.700	1.00	0.00
ATOM	2330	2HB	TYR	151	1.999	10.694	13.602	1.00	0.00
ATOM	2331	HD1	TYR	151	1.961	10.428	15.901	1.00	0.00
ATOM	2332	HD2	TYR	151	5.705	10.313	13.882	1.00	0.00
ATOM	2333	HE1	TYR	151	3.075	9.842	18.014	1.00	0.00
ATOM	2334	HE2	TYR	151	6.829	9.728	15.989	1.00	0.00
ATOM	2335	HH	TYR	151	5.819	10.223	18.821	1.00	0.00
ATOM	2336	N	GLY	152	3.383	13.151	10.682	1.00	0.00
ATOM	2337	CA	GLY	152	3.618	13.132	9.257	1.00	0.00
ATOM	2338	C	GLY	152	4.616	14.176	8.818	1.00	0.00
ATOM	2339	O	GLY	152	5.555	14.501	9.545	1.00	0.00



ATOM	2340	H	GLY	152	3.012	13.951	11.102	1.00	0.00
ATOM	2341	1HA	GLY	152	2.682	13.308	8.748	1.00	0.00
ATOM	2342	2HA	GLY	152	3.990	12.158	8.979	1.00	0.00
ATOM	2343	N	ASP	153	4.404	14.695	7.622	1.00	0.00
ATOM	2344	CA	ASP	153	5.287	15.709	7.044	1.00	0.00
ATOM	2349	C	ASP	153	5.059	17.071	7.691	1.00	0.00
ATOM	2350	O	ASP	153	5.988	17.866	7.838	1.00	0.00
ATOM	2345	CB	ASP	153	5.063	15.812	5.531	1.00	0.00
ATOM	2346	CG	ASP	153	6.176	15.159	4.734	1.00	0.00
ATOM	2347	OD1	ASP	153	7.341	15.596	4.851	1.00	0.00
ATOM	2348	OD2	ASP	153	5.893	14.199	3.988	1.00	0.00
ATOM	2351	H	ASP	153	3.635	14.379	7.108	1.00	0.00
ATOM	2352	HA	ASP	153	6.306	15.403	7.226	1.00	0.00
ATOM	2353	1HB	ASP	153	5.007	16.854	5.253	1.00	0.00
ATOM	2354	2HB	ASP	153	4.133	15.325	5.278	1.00	0.00
ATOM	2355	N	GLY	154	3.819	17.335	8.085	1.00	0.00
ATOM	2356	CA	GLY	154	3.493	18.600	8.717	1.00	0.00
ATOM	2357	C	GLY	154	3.605	18.529	10.225	1.00	0.00
ATOM	2358	O	GLY	154	2.779	19.087	10.943	1.00	0.00
ATOM	2359	H	GLY	154	3.120	16.663	7.950	1.00	0.00
ATOM	2360	1HA	GLY	154	2.483	18.874	8.453	1.00	0.00
ATOM	2361	2HA	GLY	154	4.170	19.359	8.349	1.00	0.00
ATOM	2362	N	ALA	155	4.636	17.842	10.697	1.00	0.00
ATOM	2363	CA	ALA	155	4.878	17.682	12.118	1.00	0.00
ATOM	2365	C	ALA	155	5.590	18.898	12.686	1.00	0.00
ATOM	2366	O	ALA	155	6.797	18.877	12.927	1.00	0.00
ATOM	2364	CB	ALA	155	5.682	16.416	12.379	1.00	0.00
ATOM	2367	H	ALA	155	5.254	17.435	10.068	1.00	0.00
ATOM	2368	HA	ALA	155	3.920	17.578	12.608	1.00	0.00
ATOM	2369	1HB	ALA	155	5.088	15.725	12.958	1.00	0.00
ATOM	2370	2HB	ALA	155	6.579	16.667	12.927	1.00	0.00
ATOM	2371	3HB	ALA	155	5.949	15.959	11.438	1.00	0.00
ATOM	2372	N	LEU	156	4.822	19.954	12.886	1.00	0.00
ATOM	2373	CA	LEU	156	5.327	21.203	13.423	1.00	0.00
ATOM	2378	C	LEU	156	5.874	21.006	14.836	1.00	0.00
ATOM	2379	O	LEU	156	5.568	20.009	15.496	1.00	0.00
ATOM	2374	CB	LEU	156	4.207	22.247	13.433	1.00	0.00
ATOM	2375	CG	LEU	156	2.818	21.717	13.801	1.00	0.00
ATOM	2376	CD1	LEU	156	2.155	22.620	14.824	1.00	0.00
ATOM	2377	CD2	LEU	156	1.940	21.592	12.567	1.00	0.00
ATOM	2380	H	LEU	156	3.876	19.890	12.658	1.00	0.00
ATOM	2381	HA	LEU	156	6.125	21.547	12.781	1.00	0.00
ATOM	2382	1HB	LEU	156	4.149	22.693	12.451	1.00	0.00
ATOM	2383	2HB	LEU	156	4.472	23.012	14.140	1.00	0.00
ATOM	2384	HG	LEU	156	2.921	20.734	14.241	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.454	22.319	15.818	1.00	0.00
ATOM	2386	2HD1	LEU	156	1.083	22.543	14.731	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.459	23.643	14.652	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.521	21.823	11.687	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.111	22.281	12.642	1.00	0.00
ATOM	2390	3HD2	LEU	156	1.563	20.581	12.495	1.00	0.00
ATOM	2391	N	GLU	157	6.685	21.954	15.294	1.00	0.00
ATOM	2392	CA	GLU	157	7.285	21.886	16.621	1.00	0.00
ATOM	2398	C	GLU	157	6.227	21.789	17.718	1.00	0.00
ATOM	2399	O	GLU	157	6.453	21.164	18.757	1.00	0.00
ATOM	2393	CB	GLU	157	8.168	23.106	16.854	1.00	0.00
ATOM	2394	CG	GLU	157	9.249	23.282	15.798	1.00	0.00
ATOM	2395	CD	GLU	157	10.649	23.043	16.336	1.00	0.00
ATOM	2396	OE1	GLU	157	10.787	22.378	17.386	1.00	0.00
ATOM	2397	OE2	GLU	157	11.619	23.522	15.705	1.00	0.00
ATOM	2400	H	GLU	157	6.894	22.723	14.722	1.00	0.00
ATOM	2401	HA	GLU	157	7.900	21.007	16.658	1.00	0.00
ATOM	2402	1HB	GLU	157	8.642	23.013	17.814	1.00	0.00
ATOM	2403	2HB	GLU	157	7.547	23.983	16.852	1.00	0.00
ATOM	2404	1HG	GLU	157	9.196	24.291	15.414	1.00	0.00
ATOM	2405	2HG	GLU	157	9.067	22.583	14.996	1.00	0.00
ATOM	2406	N	GLU	158	5.066	22.392	17.482	1.00	0.00
ATOM	2407	CA	GLU	158	3.987	22.353	18.461	1.00	0.00
ATOM	2413	C	GLU	158	3.374	20.961	18.511	1.00	0.00
ATOM	2414	O	GLU	158	3.102	20.430	19.584	1.00	0.00
ATOM	2408	CB	GLU	158	2.906	23.384	18.138	1.00	0.00
ATOM	2409	CG	GLU	158	3.447	24.769	17.828	1.00	0.00
ATOM	2410	CD	GLU	158	2.495	25.579	16.972	1.00	0.00



ATOM	2411	OE1	GLU	158	1.310	25.197	16.870	1.00	0.00
ATOM	2412	OE2	GLU	158	2.930	26.591	16.387	1.00	0.00
ATOM	2415	H	GLU	158	4.933	22.863	16.632	1.00	0.00
ATOM	2416	HA	GLU	158	4.411	22.579	19.428	1.00	0.00
ATOM	2417	1HB	GLU	158	2.241	23.464	18.984	1.00	0.00
ATOM	2418	2HB	GLU	158	2.345	23.042	17.281	1.00	0.00
ATOM	2419	1HG	GLU	158	4.384	24.668	17.300	1.00	0.00
ATOM	2420	2HG	GLU	158	3.610	25.296	18.755	1.00	0.00
ATOM	2421	N	ALA	159	3.178	20.367	17.342	1.00	0.00
ATOM	2422	CA	ALA	159	2.611	19.032	17.249	1.00	0.00
ATOM	2424	C	ALA	159	3.565	18.008	17.851	1.00	0.00
ATOM	2425	O	ALA	159	3.139	17.076	18.529	1.00	0.00
ATOM	2423	CB	ALA	159	2.300	18.682	15.799	1.00	0.00
ATOM	2426	H	ALA	159	3.430	20.837	16.520	1.00	0.00
ATOM	2427	HA	ALA	159	1.685	19.020	17.806	1.00	0.00
ATOM	2428	1HB	ALA	159	1.999	17.648	15.735	1.00	0.00
ATOM	2429	2HB	ALA	159	3.181	18.838	15.194	1.00	0.00
ATOM	2430	3HB	ALA	159	1.500	19.313	15.440	1.00	0.00
ATOM	2431	N	ARG	160	4.855	18.198	17.598	1.00	0.00
ATOM	2432	CA	ARG	160	5.896	17.305	18.100	1.00	0.00
ATOM	2440	C	ARG	160	5.845	17.183	19.620	1.00	0.00
ATOM	2441	O	ARG	160	5.807	16.078	20.161	1.00	0.00
ATOM	2433	CB	ARG	160	7.276	17.800	17.665	1.00	0.00
ATOM	2434	CG	ARG	160	7.764	17.174	16.369	1.00	0.00
ATOM	2435	CD	ARG	160	9.058	17.813	15.895	1.00	0.00
ATOM	2436	NE	ARG	160	8.858	18.652	14.715	1.00	0.00
ATOM	2437	CZ	ARG	160	9.660	19.658	14.369	1.00	0.00
ATOM	2438	NH1	ARG	160	10.698	19.971	15.131	1.00	0.00
ATOM	2439	NH2	ARG	160	9.414	20.356	13.268	1.00	0.00
ATOM	2442	H	ARG	160	5.117	18.968	17.049	1.00	0.00
ATOM	2443	HA	ARG	160	5.726	16.329	17.672	1.00	0.00
ATOM	2444	1HB	ARG	160	7.988	17.571	18.443	1.00	0.00
ATOM	2445	2HB	ARG	160	7.235	18.872	17.531	1.00	0.00
ATOM	2446	1HG	ARG	160	7.009	17.305	15.609	1.00	0.00
ATOM	2447	2HG	ARG	160	7.935	16.121	16.532	1.00	0.00
ATOM	2448	1HD	ARG	160	9.761	17.030	15.652	1.00	0.00
ATOM	2449	2HD	ARG	160	9.459	18.421	16.693	1.00	0.00
ATOM	2450	HE	ARG	160	8.079	18.450	14.141	1.00	0.00
ATOM	2451	1HH1	ARG	160	10.880	19.458	15.977	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.319	20.717	14.859	1.00	0.00
ATOM	2453	1HH2	ARG	160	8.626	20.126	12.687	1.00	0.00
ATOM	2454	2HH2	ARG	160	10.012	21.129	13.011	1.00	0.00
ATOM	2455	N	ARG	161	5.842	18.319	20.306	1.00	0.00
ATOM	2456	CA	ARG	161	5.795	18.320	21.763	1.00	0.00
ATOM	2464	C	ARG	161	4.423	17.882	22.269	1.00	0.00
ATOM	2465	O	ARG	161	4.283	17.441	23.407	1.00	0.00
ATOM	2457	CB	ARG	161	6.146	19.703	22.313	1.00	0.00
ATOM	2458	CG	ARG	161	5.140	20.779	21.947	1.00	0.00
ATOM	2459	CD	ARG	161	5.526	22.124	22.533	1.00	0.00
ATOM	2460	NE	ARG	161	4.891	22.361	23.827	1.00	0.00
ATOM	2461	CZ	ARG	161	5.015	23.493	24.519	1.00	0.00
ATOM	2462	NH1	ARG	161	5.786	24.476	24.071	1.00	0.00
ATOM	2463	NH2	ARG	161	4.385	23.632	25.675	1.00	0.00
ATOM	2466	H	ARG	161	5.871	19.173	19.824	1.00	0.00
ATOM	2467	HA	ARG	161	6.530	17.613	22.113	1.00	0.00
ATOM	2468	1HB	ARG	161	7.111	19.996	21.927	1.00	0.00
ATOM	2469	2HB	ARG	161	6.201	19.645	23.390	1.00	0.00
ATOM	2470	1HG	ARG	161	4.169	20.495	22.326	1.00	0.00
ATOM	2471	2HG	ARG	161	5.098	20.863	20.872	1.00	0.00
ATOM	2472	1HD	ARG	161	5.225	22.902	21.846	1.00	0.00
ATOM	2473	2HD	ARG	161	6.598	22.153	22.659	1.00	0.00
ATOM	2474	HE	ARG	161	4.336	21.639	24.197	1.00	0.00
ATOM	2475	1HH1	ARG	161	6.289	24.375	23.207	1.00	0.00
ATOM	2476	2HH1	ARG	161	5.870	25.333	24.603	1.00	0.00
ATOM	2477	1HH2	ARG	161	3.814	22.882	26.036	1.00	0.00
ATOM	2478	2HH2	ARG	161	4.475	24.482	26.199	1.00	0.00
ATOM	2479	N	LEU	162	3.414	18.009	21.417	1.00	0.00
ATOM	2480	CA	LEU	162	2.057	17.631	21.785	1.00	0.00
ATOM	2485	C	LEU	162	1.883	16.120	21.792	1.00	0.00
ATOM	2486	O	LEU	162	1.352	15.565	22.746	1.00	0.00
ATOM	2481	CB	LEU	162	1.043	18.270	20.836	1.00	0.00
ATOM	2482	CG	LEU	162	0.346	19.523	21.373	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.331	20.282	20.241	1.00	0.00



ATOM	2484	CD2	LEU	162	-0.664	19.152	22.449	1.00	0.00
ATOM	2487	H	LEU	162	3.585	18.371	20.523	1.00	0.00
ATOM	2488	HA	LEU	162	1.877	17.997	22.784	1.00	0.00
ATOM	2489	1HB	LEU	162	0.285	17.536	20.606	1.00	0.00
ATOM	2490	2HB	LEU	162	1.555	18.531	19.921	1.00	0.00
ATOM	2491	HG	LEU	162	1.085	20.175	21.816	1.00	0.00
ATOM	2492	1HD1	LEU	162	-0.807	19.581	19.572	1.00	0.00
ATOM	2493	2HD1	LEU	162	0.407	20.852	19.698	1.00	0.00
ATOM	2494	3HD1	LEU	162	-1.075	20.951	20.649	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.512	19.778	23.316	1.00	0.00
ATOM	2496	2HD2	LEU	162	-0.530	18.116	22.726	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.664	19.298	22.070	1.00	0.00
ATOM	2498	N	ARG	163	2.325	15.453	20.730	1.00	0.00
ATOM	2499	CA	ARG	163	2.193	13.998	20.648	1.00	0.00
ATOM	2507	C	ARG	163	3.037	13.314	21.718	1.00	0.00
ATOM	2508	O	ARG	163	2.576	12.377	22.373	1.00	0.00
ATOM	2500	CB	ARG	163	2.569	13.477	19.257	1.00	0.00
ATOM	2501	CG	ARG	163	3.739	14.201	18.622	1.00	0.00
ATOM	2502	CD	ARG	163	4.414	13.353	17.568	1.00	0.00
ATOM	2503	NE	ARG	163	5.789	13.034	17.937	1.00	0.00
ATOM	2504	CZ	ARG	163	6.830	13.151	17.121	1.00	0.00
ATOM	2505	NH1	ARG	163	6.657	13.536	15.859	1.00	0.00
ATOM	2506	NH2	ARG	163	8.049	12.875	17.562	1.00	0.00
ATOM	2509	H	ARG	163	2.742	15.949	19.985	1.00	0.00
ATOM	2510	HA	ARG	163	1.155	13.759	20.837	1.00	0.00
ATOM	2511	1HB	ARG	163	1.714	13.580	18.606	1.00	0.00
ATOM	2512	2HB	ARG	163	2.824	12.431	19.335	1.00	0.00
ATOM	2513	1HG	ARG	163	4.458	14.443	19.391	1.00	0.00
ATOM	2514	2HG	ARG	163	3.381	15.110	18.163	1.00	0.00
ATOM	2515	1HD	ARG	163	4.416	13.896	16.634	1.00	0.00
ATOM	2516	2HD	ARG	163	3.857	12.435	17.450	1.00	0.00
ATOM	2517	HE	ARG	163	5.949	12.726	18.874	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.737	13.742	15.513	1.00	0.00
ATOM	2519	2HH1	ARG	163	7.451	13.621	15.247	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.187	12.578	18.521	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.840	12.964	16.949	1.00	0.00
ATOM	2522	N	GLU	164	4.266	13.790	21.897	1.00	0.00
ATOM	2523	CA	GLU	164	5.163	13.222	22.894	1.00	0.00
ATOM	2529	C	GLU	164	4.620	13.466	24.302	1.00	0.00
ATOM	2530	O	GLU	164	4.623	12.564	25.146	1.00	0.00
ATOM	2524	CB	GLU	164	6.577	13.800	22.738	1.00	0.00
ATOM	2525	CG	GLU	164	7.626	12.761	22.342	1.00	0.00
ATOM	2526	CD	GLU	164	7.563	12.367	20.873	1.00	0.00
ATOM	2527	OE1	GLU	164	6.450	12.184	20.345	1.00	0.00
ATOM	2528	OE2	GLU	164	8.635	12.219	20.245	1.00	0.00
ATOM	2531	H	GLU	164	4.575	14.542	21.348	1.00	0.00
ATOM	2532	HA	GLU	164	5.204	12.157	22.725	1.00	0.00
ATOM	2533	1HB	GLU	164	6.878	14.243	23.677	1.00	0.00
ATOM	2534	2HB	GLU	164	6.557	14.568	21.979	1.00	0.00
ATOM	2535	1HG	GLU	164	7.479	11.874	22.941	1.00	0.00
ATOM	2536	2HG	GLU	164	8.606	13.168	22.544	1.00	0.00
ATOM	2537	N	GLY	165	4.124	14.676	24.545	1.00	0.00
ATOM	2538	CA	GLY	165	3.562	14.992	25.843	1.00	0.00
ATOM	2539	C	GLY	165	2.266	14.247	26.082	1.00	0.00
ATOM	2540	O	GLY	165	1.909	13.941	27.221	1.00	0.00
ATOM	2541	H	GLY	165	4.122	15.354	23.833	1.00	0.00
ATOM	2542	1HA	GLY	165	3.373	16.055	25.897	1.00	0.00
ATOM	2543	2HA	GLY	165	4.271	14.720	26.610	1.00	0.00
ATOM	2544	N	ASN	166	1.564	13.956	24.993	1.00	0.00
ATOM	2545	CA	ASN	166	0.295	13.247	25.054	1.00	0.00
ATOM	2550	C	ASN	166	0.484	11.824	25.535	1.00	0.00
ATOM	2551	O	ASN	166	-0.137	11.410	26.515	1.00	0.00
ATOM	2546	CB	ASN	166	-0.386	13.225	23.684	1.00	0.00
ATOM	2547	CG	ASN	166	-1.646	14.064	23.661	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.146	14.491	24.700	1.00	0.00
ATOM	2549	ND2	ASN	166	-2.182	14.293	22.475	1.00	0.00
ATOM	2552	H	ASN	166	1.910	14.237	24.118	1.00	0.00
ATOM	2553	HA	ASN	166	-0.343	13.769	25.752	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.646	12.205	23.434	1.00	0.00
ATOM	2555	2HB	ASN	166	0.297	13.609	22.941	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.743	13.913	21.688	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.996	14.829	22.434	1.00	0.00
ATOM	2558	N	TRP	167	1.335	11.067	24.844	1.00	0.00



ATOM	2559	CA	TRP	167	1.568	9.683	25.223	1.00	0.00
ATOM	2570	C	TRP	167	2.180	9.594	26.607	1.00	0.00
ATOM	2571	O	TRP	167	1.997	8.598	27.292	1.00	0.00
ATOM	2560	CB	TRP	167	2.398	8.910	24.175	1.00	0.00
ATOM	2561	CG	TRP	167	3.853	9.273	24.084	1.00	0.00
ATOM	2562	CD1	TRP	167	4.449	9.976	23.082	1.00	0.00
ATOM	2563	CD2	TRP	167	4.898	8.916	24.999	1.00	0.00
ATOM	2564	NE1	TRP	167	5.795	10.100	23.326	1.00	0.00
ATOM	2565	CE2	TRP	167	6.094	9.459	24.498	1.00	0.00
ATOM	2566	CE3	TRP	167	4.935	8.200	26.199	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.314	9.308	25.153	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.145	8.050	26.850	1.00	0.00
ATOM	2569	CH2	TRP	167	7.321	8.602	26.326	1.00	0.00
ATOM	2572	H	TRP	167	1.802	11.444	24.067	1.00	0.00
ATOM	2573	HA	TRP	167	0.592	9.218	25.278	1.00	0.00
ATOM	2574	1HB	TRP	167	1.957	9.072	23.201	1.00	0.00
ATOM	2575	2HB	TRP	167	2.344	7.857	24.404	1.00	0.00
ATOM	2576	HD1	TRP	167	3.926	10.380	22.228	1.00	0.00
ATOM	2577	HE1	TRP	167	6.430	10.576	22.753	1.00	0.00
ATOM	2578	HE3	TRP	167	4.033	7.768	26.620	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.229	9.727	24.763	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.192	7.500	27.778	1.00	0.00
ATOM	2581	HM2	TRP	167	8.245	8.461	26.867	1.00	0.00
ATOM	2582	N	ALA	168	2.883	10.634	27.033	1.00	0.00
ATOM	2583	CA	ALA	168	3.482	10.631	28.360	1.00	0.00
ATOM	2585	C	ALA	168	2.412	10.404	29.424	1.00	0.00
ATOM	2586	O	ALA	168	2.612	9.647	30.373	1.00	0.00
ATOM	2584	CB	ALA	168	4.228	11.930	28.609	1.00	0.00
ATOM	2587	H	ALA	168	2.993	11.420	26.449	1.00	0.00
ATOM	2588	HA	ALA	168	4.190	9.820	28.401	1.00	0.00
ATOM	2589	1HB	ALA	168	5.262	11.715	28.832	1.00	0.00
ATOM	2590	2HB	ALA	168	3.780	12.446	29.447	1.00	0.00
ATOM	2591	3HB	ALA	168	4.170	12.555	27.730	1.00	0.00
ATOM	2592	N	SER	169	1.276	11.059	29.256	1.00	0.00
ATOM	2593	CA	SER	169	0.176	10.928	30.197	1.00	0.00
ATOM	2596	C	SER	169	-0.745	9.747	29.867	1.00	0.00
ATOM	2597	O	SER	169	-1.338	9.157	30.769	1.00	0.00
ATOM	2594	CB	SER	169	-0.628	12.229	30.233	1.00	0.00
ATOM	2595	OG	SER	169	0.222	13.340	30.478	1.00	0.00
ATOM	2598	H	SER	169	1.173	11.650	28.478	1.00	0.00
ATOM	2599	HA	SER	169	0.605	10.764	31.174	1.00	0.00
ATOM	2600	1HB	SER	169	-1.365	12.172	31.022	1.00	0.00
ATOM	2601	2HB	SER	169	-1.124	12.372	29.283	1.00	0.00
ATOM	2602	HG	SER	169	-0.286	14.162	30.386	1.00	0.00
ATOM	2603	N	VAL	170	-0.905	9.418	28.584	1.00	0.00
ATOM	2604	CA	VAL	170	-1.817	8.333	28.201	1.00	0.00
ATOM	2608	C	VAL	170	-1.159	6.951	28.176	1.00	0.00
ATOM	2609	O	VAL	170	-1.804	5.949	28.470	1.00	0.00
ATOM	2605	CB	VAL	170	-2.502	8.590	26.839	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.467	9.761	26.938	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.493	8.829	25.732	1.00	0.00
ATOM	2610	H	VAL	170	-0.435	9.934	27.888	1.00	0.00
ATOM	2611	HA	VAL	170	-2.597	8.306	28.948	1.00	0.00
ATOM	2612	HB	VAL	170	-3.066	7.710	26.584	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.314	10.277	27.874	1.00	0.00
ATOM	2614	2HG1	VAL	170	-4.482	9.396	26.890	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.290	10.443	26.117	1.00	0.00
ATOM	2616	1HG2	VAL	170	-1.732	9.753	25.218	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.526	8.008	25.031	1.00	0.00
ATOM	2618	3HG2	VAL	170	-0.503	8.900	26.156	1.00	0.00
ATOM	2619	N	ARG	171	0.108	6.879	27.826	1.00	0.00
ATOM	2620	CA	ARG	171	0.793	5.597	27.770	1.00	0.00
ATOM	2628	C	ARG	171	1.082	5.083	29.176	1.00	0.00
ATOM	2629	O	ARG	171	1.123	3.872	29.407	1.00	0.00
ATOM	2621	CB	ARG	171	2.080	5.711	26.954	1.00	0.00
ATOM	2622	CG	ARG	171	1.955	5.175	25.538	1.00	0.00
ATOM	2623	CD	ARG	171	3.059	4.182	25.219	1.00	0.00
ATOM	2624	NE	ARG	171	4.293	4.843	24.789	1.00	0.00
ATOM	2625	CZ	ARG	171	5.456	4.762	25.442	1.00	0.00
ATOM	2626	NH1	ARG	171	5.547	4.073	26.576	1.00	0.00
ATOM	2627	NH2	ARG	171	6.531	5.377	24.963	1.00	0.00
ATOM	2630	H	ARG	171	0.601	7.701	27.596	1.00	0.00
ATOM	2631	HA	ARG	171	0.132	4.896	27.280	1.00	0.00



ATOM	2632	1HB	ARG	171	2.865	5.169	27.454	1.00	0.00
ATOM	2633	2HB	ARG	171	2.353	6.754	26.887	1.00	0.00
ATOM	2634	1HG	ARG	171	2.013	6.001	24.845	1.00	0.00
ATOM	2635	2HG	ARG	171	1.000	4.680	25.433	1.00	0.00
ATOM	2636	1HD	ARG	171	2.717	3.534	24.426	1.00	0.00
ATOM	2637	2HD	ARG	171	3.265	3.596	26.100	1.00	0.00
ATOM	2638	HE	ARG	171	4.252	5.370	23.959	1.00	0.00
ATOM	2639	1HH1	ARG	171	4.745	3.607	26.949	1.00	0.00
ATOM	2640	2HH1	ARG	171	6.421	4.021	27.064	1.00	0.00
ATOM	2641	1HH2	ARG	171	6.476	5.900	24.112	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.410	5.327	25.464	1.00	0.00
ATOM	2643	N	THR	172	1.267	6.004	30.109	1.00	0.00
ATOM	2644	CA	THR	172	1.547	5.643	31.491	1.00	0.00
ATOM	2648	C	THR	172	0.262	5.386	32.279	1.00	0.00
ATOM	2649	O	THR	172	0.228	4.524	33.158	1.00	0.00
ATOM	2645	CB	THR	172	2.387	6.724	32.184	1.00	0.00
ATOM	2646	OG1	THR	172	3.330	7.270	31.252	1.00	0.00
ATOM	2647	CG2	THR	172	3.126	6.155	33.387	1.00	0.00
ATOM	2650	H	THR	172	1.219	6.951	29.864	1.00	0.00
ATOM	2651	HA	THR	172	2.122	4.734	31.480	1.00	0.00
ATOM	2652	HB	THR	172	1.727	7.506	32.520	1.00	0.00
ATOM	2653	HG1	THR	172	3.143	8.211	31.111	1.00	0.00
ATOM	2654	1HG2	THR	172	2.857	5.117	33.512	1.00	0.00
ATOM	2655	2HG2	THR	172	2.852	6.708	34.272	1.00	0.00
ATOM	2656	3HG2	THR	172	4.191	6.234	33.225	1.00	0.00
ATOM	2657	N	VAL	173	-0.804	6.117	31.961	1.00	0.00
ATOM	2658	CA	VAL	173	-2.072	5.924	32.661	1.00	0.00
ATOM	2662	C	VAL	173	-2.647	4.537	32.363	1.00	0.00
ATOM	2663	O	VAL	173	-3.296	3.928	33.210	1.00	0.00
ATOM	2659	CB	VAL	173	-3.098	7.037	32.327	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.772	6.813	30.982	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.137	7.151	33.434	1.00	0.00
ATOM	2664	H	VAL	173	-0.742	6.787	31.247	1.00	0.00
ATOM	2665	HA	VAL	173	-1.860	5.977	33.721	1.00	0.00
ATOM	2666	HB	VAL	173	-2.564	7.973	32.275	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.174	7.260	30.201	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.751	7.268	30.990	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.868	5.754	30.800	1.00	0.00
ATOM	2670	1HG2	VAL	173	-3.950	8.044	34.013	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.072	6.286	34.077	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.124	7.204	32.999	1.00	0.00
ATOM	2673	N	LEU	174	-2.373	4.030	31.167	1.00	0.00
ATOM	2674	CA	LEU	174	-2.841	2.705	30.776	1.00	0.00
ATOM	2679	C	LEU	174	-1.669	1.738	30.670	1.00	0.00
ATOM	2680	O	LEU	174	-1.666	0.832	29.837	1.00	0.00
ATOM	2675	CB	LEU	174	-3.604	2.755	29.450	1.00	0.00
ATOM	2676	CG	LEU	174	-4.396	4.035	29.208	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.400	4.385	27.729	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.818	3.893	29.728	1.00	0.00
ATOM	2681	H	LEU	174	-1.832	4.554	30.539	1.00	0.00
ATOM	2682	HA	LEU	174	-3.508	2.353	31.551	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.292	1.923	29.424	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.893	2.637	28.645	1.00	0.00
ATOM	2685	HG	LEU	174	-3.920	4.845	29.743	1.00	0.00
ATOM	2686	1HD1	LEU	174	-4.916	5.322	27.583	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.904	3.605	27.176	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.383	4.475	27.379	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.375	4.791	29.507	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.796	3.736	30.796	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.293	3.048	29.250	1.00	0.00
ATOM	2692	N	THR	175	-0.667	1.939	31.515	1.00	0.00
ATOM	2693	CA	THR	175	0.508	1.077	31.521	1.00	0.00
ATOM	2697	C	THR	175	0.130	-0.325	32.004	1.00	0.00
ATOM	2698	O	THR	175	0.691	-1.325	31.550	1.00	0.00
ATOM	2694	CB	THR	175	1.629	1.662	32.413	1.00	0.00
ATOM	2695	OG1	THR	175	2.236	2.781	31.759	1.00	0.00
ATOM	2696	CG2	THR	175	2.702	0.627	32.730	1.00	0.00
ATOM	2699	H	THR	175	-0.719	2.686	32.153	1.00	0.00
ATOM	2700	HA	THR	175	0.878	1.012	30.508	1.00	0.00
ATOM	2701	HB	THR	175	1.187	1.995	33.341	1.00	0.00
ATOM	2702	HG1	THR	175	1.780	2.958	30.929	1.00	0.00
ATOM	2703	1HG2	THR	175	3.457	1.073	33.362	1.00	0.00
ATOM	2704	2HG2	THR	175	3.157	0.289	31.811	1.00	0.00



ATOM	2705	3HG2	THR	175	2.254	-0.211	33.241	1.00	0.00
ATOM	2706	N	GLY	176	-0.842	-0.389	32.911	1.00	0.00
ATOM	2707	CA	GLY	176	-1.296	-1.663	33.439	1.00	0.00
ATOM	2708	C	GLY	176	-2.213	-2.409	32.487	1.00	0.00
ATOM	2709	O	GLY	176	-3.287	-2.865	32.875	1.00	0.00
ATOM	2710	H	GLY	176	-1.263	0.439	33.220	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.825	-1.486	34.365	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.434	-2.280	33.646	1.00	0.00
ATOM	2713	N	ALA	177	-1.774	-2.542	31.244	1.00	0.00
ATOM	2714	CA	ALA	177	-2.529	-3.247	30.214	1.00	0.00
ATOM	2716	C	ALA	177	-1.725	-4.443	29.733	1.00	0.00
ATOM	2717	O	ALA	177	-2.026	-5.054	28.709	1.00	0.00
ATOM	2715	CB	ALA	177	-2.843	-2.314	29.057	1.00	0.00
ATOM	2718	H	ALA	177	-0.900	-2.159	31.011	1.00	0.00
ATOM	2719	HA	ALA	177	-3.462	-3.593	30.638	1.00	0.00
ATOM	2720	1HB	ALA	177	-1.999	-1.665	28.875	1.00	0.00
ATOM	2721	2HB	ALA	177	-3.709	-1.718	29.302	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.047	-2.896	28.170	1.00	0.00
ATOM	2723	N	VAL	178	-0.687	-4.768	30.491	1.00	0.00
ATOM	2724	CA	VAL	178	0.183	-5.886	30.163	1.00	0.00
ATOM	2728	C	VAL	178	-0.414	-7.196	30.668	1.00	0.00
ATOM	2729	O	VAL	178	0.175	-7.883	31.502	1.00	0.00
ATOM	2725	CB	VAL	178	1.597	-5.709	30.759	1.00	0.00
ATOM	2726	CG1	VAL	178	2.611	-6.525	29.974	1.00	0.00
ATOM	2727	CG2	VAL	178	1.998	-4.240	30.786	1.00	0.00
ATOM	2730	H	VAL	178	-0.503	-4.240	31.294	1.00	0.00
ATOM	2731	HA	VAL	178	0.271	-5.936	29.087	1.00	0.00
ATOM	2732	HB	VAL	178	1.585	-6.075	31.774	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.592	-6.391	30.404	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.620	-6.196	28.946	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.340	-7.570	30.015	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.516	-4.023	31.709	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.114	-3.624	30.716	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.650	-4.028	29.950	1.00	0.00
ATOM	2739	N	ALA	179	-1.590	-7.532	30.161	1.00	0.00
ATOM	2740	CA	ALA	179	-2.268	-8.755	30.560	1.00	0.00
ATOM	2742	C	ALA	179	-1.839	-9.915	29.669	1.00	0.00
ATOM	2743	O	ALA	179	-2.308	-11.044	29.820	1.00	0.00
ATOM	2741	CB	ALA	179	-3.780	-8.566	30.508	1.00	0.00
ATOM	2744	H	ALA	179	-2.016	-6.937	29.503	1.00	0.00
ATOM	2745	HA	ALA	179	-1.988	-8.973	31.581	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.016	-7.517	30.611	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.239	-9.119	31.315	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.156	-8.931	29.564	1.00	0.00
ATOM	2749	N	LEU	180	-0.945	-9.622	28.738	1.00	0.00
ATOM	2750	CA	LEU	180	-0.449	-10.624	27.810	1.00	0.00
ATOM	2755	C	LEU	180	0.826	-11.276	28.338	1.00	0.00
ATOM	2756	O	LEU	180	0.974	-12.502	28.286	1.00	0.00
ATOM	2751	CB	LEU	180	-0.192	-9.987	26.441	1.00	0.00
ATOM	2752	CG	LEU	180	-1.125	-8.829	26.075	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.617	-8.104	24.841	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.541	-9.334	25.849	1.00	0.00
ATOM	2757	H	LEU	180	-0.614	-8.703	28.671	1.00	0.00
ATOM	2758	HA	LEU	180	-1.209	-11.384	27.705	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.297	-10.753	25.689	1.00	0.00
ATOM	2760	2HB	LEU	180	0.825	-9.623	26.421	1.00	0.00
ATOM	2761	HG	LEU	180	-1.148	-8.122	26.893	1.00	0.00
ATOM	2762	1HD1	LEU	180	-1.445	-7.626	24.337	1.00	0.00
ATOM	2763	2HD1	LEU	180	-0.151	-8.813	24.172	1.00	0.00
ATOM	2764	3HD1	LEU	180	0.106	-7.357	25.133	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.535	-10.082	25.071	1.00	0.00
ATOM	2766	2HD2	LEU	180	-3.176	-8.511	25.553	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.917	-9.767	26.763	1.00	0.00
ATOM	2768	N	GLY	181	1.739	-10.448	28.830	1.00	0.00
ATOM	2769	CA	GLY	181	2.999	-10.927	29.356	1.00	0.00
ATOM	2770	C	GLY	181	2.839	-11.749	30.614	1.00	0.00
ATOM	2771	O	GLY	181	2.707	-11.208	31.713	1.00	0.00
ATOM	2772	H	GLY	181	1.558	-9.488	28.825	1.00	0.00
ATOM	2773	1HA	GLY	181	3.630	-10.078	29.574	1.00	0.00
ATOM	2774	2HA	GLY	181	3.480	-11.535	28.605	1.00	0.00
ATOM	2775	N	ALA	182	2.856	-13.060	30.446	1.00	0.00
ATOM	2776	CA	ALA	182	2.721	-13.982	31.563	1.00	0.00
ATOM	2778	C	ALA	182	4.071	-14.199	32.249	1.00	0.00



ATOM	2779	O	ALA	182	4.995	-13.393	32.096	1.00	0.00
ATOM	2777	CB	ALA	182	2.136	-15.306	31.088	1.00	0.00
ATOM	2780	H	ALA	182	2.968	-13.416	29.542	1.00	0.00
ATOM	2781	HA	ALA	182	2.034	-13.546	32.274	1.00	0.00
ATOM	2782	1HB	ALA	182	2.937	-15.991	30.854	1.00	0.00
ATOM	2783	2HB	ALA	182	1.536	-15.139	30.204	1.00	0.00
ATOM	2784	3HB	ALA	182	1.517	-15.726	31.866	1.00	0.00
ATOM	2785	N	LEU	183	4.185	-15.284	32.998	1.00	0.00
ATOM	2790	CA	LEU	183	5.416	-15.603	33.699	1.00	0.00
ATOM	2791	C	LEU	183	5.736	-17.082	33.549	1.00	0.00
ATOM	2792	O	LEU	183	4.795	-17.863	33.299	1.00	0.00
ATOM	2786	CB	LEU	183	5.291	-15.237	35.179	1.00	0.00
ATOM	2787	CG	LEU	183	6.607	-14.906	35.881	1.00	0.00
ATOM	2788	CD1	LEU	183	6.559	-13.504	36.468	1.00	0.00
ATOM	2789	CD2	LEU	183	6.899	-15.931	36.966	1.00	0.00
ATOM	2793	OXT	LEU	183	6.918	-17.456	33.685	1.00	0.00
ATOM	2794	H	LEU	183	3.423	-15.895	33.079	1.00	0.00
ATOM	2795	HA	LEU	183	6.214	-15.024	33.257	1.00	0.00
ATOM	2796	1HB	LEU	183	4.834	-16.068	35.696	1.00	0.00
ATOM	2797	2HB	LEU	183	4.637	-14.381	35.262	1.00	0.00
ATOM	2798	HG	LEU	183	7.411	-14.941	35.160	1.00	0.00
ATOM	2799	1HD1	LEU	183	7.256	-13.432	37.289	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.561	-13.296	36.824	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.825	-12.786	35.706	1.00	0.00
ATOM	2802	1HD2	LEU	183	6.058	-16.599	37.063	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.066	-15.423	37.905	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.779	-16.495	36.699	1.00	0.00
ENDMDL									
MODEL					13				
ATOM	3	N	GLY	-4	-13.517	-20.731	-19.669	1.00	0.00
ATOM	4	CA	GLY	-4	-12.075	-20.447	-19.496	1.00	0.00
ATOM	1	C	GLY	-4	-11.820	-18.973	-19.275	1.00	0.00
ATOM	2	O	GLY	-4	-12.335	-18.393	-18.319	1.00	0.00
ATOM	5	1HA	GLY	-4	-11.707	-20.996	-18.642	1.00	0.00
ATOM	6	2HA	GLY	-4	-11.544	-20.770	-20.379	1.00	0.00
ATOM	7	1HT	GLY	-4	-14.084	-20.040	-19.129	1.00	0.00
ATOM	8	2HT	GLY	-4	-13.738	-21.688	-19.323	1.00	0.00
ATOM	9	3HT	GLY	-4	-13.776	-20.662	-20.674	1.00	0.00
ATOM	10	N	PRO	-3	-11.034	-18.331	-20.154	1.00	0.00
ATOM	11	CA	PRO	-3	-10.721	-16.901	-20.050	1.00	0.00
ATOM	15	C	PRO	-3	-11.971	-16.031	-20.138	1.00	0.00
ATOM	16	O	PRO	-3	-12.960	-16.406	-20.775	1.00	0.00
ATOM	12	CB	PRO	-3	-9.805	-16.637	-21.250	1.00	0.00
ATOM	13	CG	PRO	-3	-9.296	-17.978	-21.652	1.00	0.00
ATOM	14	CD	PRO	-3	-10.393	-18.948	-21.324	1.00	0.00
ATOM	17	HA	PRO	-3	-10.193	-16.680	-19.133	1.00	0.00
ATOM	18	1HB	PRO	-3	-8.999	-15.984	-20.951	1.00	0.00
ATOM	19	2HB	PRO	-3	-10.374	-16.175	-22.044	1.00	0.00
ATOM	20	1HG	PRO	-3	-8.406	-18.216	-21.089	1.00	0.00
ATOM	21	2HG	PRO	-3	-9.088	-17.989	-22.711	1.00	0.00
ATOM	22	1HD	PRO	-3	-9.983	-19.914	-21.075	1.00	0.00
ATOM	23	2HD	PRO	-3	-11.086	-19.028	-22.149	1.00	0.00
ATOM	24	N	LEU	-2	-11.923	-14.874	-19.497	1.00	0.00
ATOM	25	CA	LEU	-2	-13.048	-13.952	-19.497	1.00	0.00
ATOM	30	C	LEU	-2	-12.662	-12.634	-20.156	1.00	0.00
ATOM	31	O	LEU	-2	-13.392	-12.111	-20.998	1.00	0.00
ATOM	26	CB	LEU	-2	-13.530	-13.699	-18.066	1.00	0.00
ATOM	27	CG	LEU	-2	-14.187	-14.899	-17.379	1.00	0.00
ATOM	28	CD1	LEU	-2	-13.263	-15.482	-16.322	1.00	0.00
ATOM	29	CD2	LEU	-2	-15.515	-14.493	-16.764	1.00	0.00
ATOM	32	H	LEU	-2	-11.105	-14.630	-19.008	1.00	0.00
ATOM	33	HA	LEU	-2	-13.847	-14.405	-20.065	1.00	0.00
ATOM	34	1HB	LEU	-2	-14.244	-12.890	-18.086	1.00	0.00
ATOM	35	2HB	LEU	-2	-12.681	-13.393	-17.471	1.00	0.00
ATOM	36	HG	LEU	-2	-14.379	-15.666	-18.116	1.00	0.00
ATOM	37	1HD1	LEU	-2	-13.804	-16.208	-15.731	1.00	0.00
ATOM	38	2HD1	LEU	-2	-12.907	-14.691	-15.678	1.00	0.00
ATOM	39	3HD1	LEU	-2	-12.423	-15.962	-16.801	1.00	0.00
ATOM	40	1HD2	LEU	-2	-15.470	-14.622	-15.692	1.00	0.00
ATOM	41	2HD2	LEU	-2	-16.304	-15.111	-17.168	1.00	0.00
ATOM	42	3HD2	LEU	-2	-15.717	-13.457	-16.992	1.00	0.00
ATOM	43	N	GLY	-1	-11.510	-12.105	-19.767	1.00	0.00
ATOM	44	CA	GLY	-1	-11.040	-10.852	-20.320	1.00	0.00



ATOM	45	C	GLY	-1	-11.800	-9.664	-19.766	1.00	0.00
ATOM	46	O	GLY	-1	-12.665	-9.825	-18.904	1.00	0.00
ATOM	47	H	GLY	-1	-10.970	-12.572	-19.092	1.00	0.00
ATOM	48	1HA	GLY	-1	-11.162	-10.875	-21.394	1.00	0.00
ATOM	49	2HA	GLY	-1	-9.991	-10.737	-20.089	1.00	0.00
ATOM	50	N	SER	0	-11.479	-8.474	-20.273	1.00	0.00
ATOM	51	CA	SER	0	-12.126	-7.230	-19.848	1.00	0.00
ATOM	54	C	SER	0	-12.116	-7.088	-18.325	1.00	0.00
ATOM	55	O	SER	0	-13.167	-7.076	-17.677	1.00	0.00
ATOM	52	CB	SER	0	-13.565	-7.169	-20.373	1.00	0.00
ATOM	53	OG	SER	0	-13.779	-8.119	-21.407	1.00	0.00
ATOM	56	H	SER	0	-10.783	-8.431	-20.965	1.00	0.00
ATOM	57	HA	SER	0	-11.567	-6.411	-20.274	1.00	0.00
ATOM	58	1HB	SER	0	-13.760	-6.181	-20.764	1.00	0.00
ATOM	59	2HB	SER	0	-14.250	-7.377	-19.565	1.00	0.00
ATOM	60	HG	SER	0	-13.592	-9.004	-21.066	1.00	0.00
ATOM	61	N	MET	1	-10.924	-6.990	-17.758	1.00	0.00
ATOM	62	CA	MET	1	-10.777	-6.856	-16.318	1.00	0.00
ATOM	67	C	MET	1	-10.762	-5.389	-15.910	1.00	0.00
ATOM	68	O	MET	1	-10.191	-4.547	-16.606	1.00	0.00
ATOM	63	CB	MET	1	-9.494	-7.547	-15.844	1.00	0.00
ATOM	64	CG	MET	1	-9.681	-9.017	-15.505	1.00	0.00
ATOM	65	SD	MET	1	-11.294	-9.364	-14.775	1.00	0.00
ATOM	66	CE	MET	1	-11.786	-10.807	-15.715	1.00	0.00
ATOM	69	H	MET	1	-10.124	-7.009	-18.322	1.00	0.00
ATOM	70	HA	MET	1	-11.626	-7.337	-15.853	1.00	0.00
ATOM	71	1HB	MET	1	-9.130	-7.039	-14.962	1.00	0.00
ATOM	72	2HB	MET	1	-8.750	-7.471	-16.624	1.00	0.00
ATOM	73	1HG	MET	1	-8.914	-9.311	-14.804	1.00	0.00
ATOM	74	2HG	MET	1	-9.581	-9.597	-16.409	1.00	0.00
ATOM	75	1HE	MET	1	-11.884	-10.541	-16.757	1.00	0.00
ATOM	76	2HE	MET	1	-12.732	-11.172	-15.346	1.00	0.00
ATOM	77	3HE	MET	1	-11.036	-11.578	-15.611	1.00	0.00
ATOM	78	N	ALA	2	-11.393	-5.088	-14.786	1.00	0.00
ATOM	79	CA	ALA	2	-11.452	-3.725	-14.281	1.00	0.00
ATOM	81	C	ALA	2	-11.359	-3.718	-12.761	1.00	0.00
ATOM	82	O	ALA	2	-11.768	-4.675	-12.103	1.00	0.00
ATOM	80	CB	ALA	2	-12.734	-3.042	-14.735	1.00	0.00
ATOM	83	H	ALA	2	-11.835	-5.803	-14.277	1.00	0.00
ATOM	84	HA	ALA	2	-10.615	-3.180	-14.688	1.00	0.00
ATOM	85	1HB	ALA	2	-13.356	-3.754	-15.259	1.00	0.00
ATOM	86	2HB	ALA	2	-12.490	-2.223	-15.395	1.00	0.00
ATOM	87	3HB	ALA	2	-13.266	-2.665	-13.874	1.00	0.00
ATOM	88	N	THR	3	-10.819	-2.641	-12.209	1.00	0.00
ATOM	89	CA	THR	3	-10.673	-2.508	-10.773	1.00	0.00
ATOM	93	C	THR	3	-11.704	-1.525	-10.215	1.00	0.00
ATOM	94	O	THR	3	-11.945	-0.464	-10.799	1.00	0.00
ATOM	90	CB	THR	3	-9.241	-2.061	-10.396	1.00	0.00
ATOM	91	OG1	THR	3	-9.116	-0.637	-10.496	1.00	0.00
ATOM	92	CG2	THR	3	-8.205	-2.709	-11.304	1.00	0.00
ATOM	95	H	THR	3	-10.506	-1.912	-12.780	1.00	0.00
ATOM	96	HA	THR	3	-10.848	-3.480	-10.335	1.00	0.00
ATOM	97	HB	THR	3	-9.045	-2.362	-9.382	1.00	0.00
ATOM	98	HG1	THR	3	-8.945	-0.268	-9.624	1.00	0.00
ATOM	99	1HG2	THR	3	-7.233	-2.285	-11.102	1.00	0.00
ATOM	100	2HG2	THR	3	-8.469	-2.530	-12.336	1.00	0.00
ATOM	101	3HG2	THR	3	-8.180	-3.773	-11.119	1.00	0.00
ATOM	102	N	PRO	4	-12.345	-1.876	-9.088	1.00	0.00
ATOM	103	CA	PRO	4	-13.362	-1.047	-8.454	1.00	0.00
ATOM	107	C	PRO	4	-12.760	-0.003	-7.515	1.00	0.00
ATOM	108	O	PRO	4	-11.993	-0.335	-6.608	1.00	0.00
ATOM	104	CB	PRO	4	-14.208	-2.056	-7.659	1.00	0.00
ATOM	105	CG	PRO	4	-13.521	-3.386	-7.789	1.00	0.00
ATOM	106	CD	PRO	4	-12.149	-3.119	-8.343	1.00	0.00
ATOM	109	HA	PRO	4	-13.983	-0.553	-9.187	1.00	0.00
ATOM	110	1HB	PRO	4	-15.205	-2.092	-8.073	1.00	0.00
ATOM	111	2HB	PRO	4	-14.260	-1.745	-6.626	1.00	0.00
ATOM	112	1HG	PRO	4	-14.079	-4.021	-8.462	1.00	0.00
ATOM	113	2HG	PRO	4	-13.442	-3.852	-6.817	1.00	0.00
ATOM	114	1HD	PRO	4	-11.841	-3.920	-8.999	1.00	0.00
ATOM	115	2HD	PRO	4	-11.435	-2.984	-7.543	1.00	0.00
ATOM	116	N	ALA	5	-13.109	1.255	-7.736	1.00	0.00
ATOM	117	CA	ALA	5	-12.608	2.348	-6.914	1.00	0.00



ATOM	119	C	ALA	5	-13.216	2.307	-5.515	1.00	0.00
ATOM	120	O	ALA	5	-14.435	2.217	-5.359	1.00	0.00
ATOM	118	CB	ALA	5	-12.900	3.683	-7.578	1.00	0.00
ATOM	121	H	ALA	5	-13.725	1.456	-8.478	1.00	0.00
ATOM	122	HA	ALA	5	-11.536	2.239	-6.835	1.00	0.00
ATOM	123	1HB	ALA	5	-12.800	3.582	-8.649	1.00	0.00
ATOM	124	2HB	ALA	5	-12.201	4.424	-7.219	1.00	0.00
ATOM	125	3HB	ALA	5	-13.907	3.991	-7.338	1.00	0.00
ATOM	126	N	SER	6	-12.363	2.373	-4.501	1.00	0.00
ATOM	127	CA	SER	6	-12.810	2.347	-3.114	1.00	0.00
ATOM	130	C	SER	6	-12.040	3.376	-2.283	1.00	0.00
ATOM	131	O	SER	6	-10.957	3.811	-2.675	1.00	0.00
ATOM	128	CB	SER	6	-12.622	0.944	-2.525	1.00	0.00
ATOM	129	OG	SER	6	-12.759	-0.056	-3.524	1.00	0.00
ATOM	132	H	SER	6	-11.402	2.445	-4.689	1.00	0.00
ATOM	133	HA	SER	6	-13.860	2.600	-3.098	1.00	0.00
ATOM	134	1HB	SER	6	-13.367	0.776	-1.760	1.00	0.00
ATOM	135	2HB	SER	6	-11.636	0.869	-2.090	1.00	0.00
ATOM	136	HG	SER	6	-12.526	0.316	-4.383	1.00	0.00
ATOM	137	N	ALA	7	-12.600	3.767	-1.146	1.00	0.00
ATOM	138	CA	ALA	7	-11.961	4.746	-0.277	1.00	0.00
ATOM	140	C	ALA	7	-11.078	4.064	0.766	1.00	0.00
ATOM	141	O	ALA	7	-11.416	2.988	1.269	1.00	0.00
ATOM	139	CB	ALA	7	-13.018	5.606	0.402	1.00	0.00
ATOM	142	H	ALA	7	-13.467	3.391	-0.885	1.00	0.00
ATOM	143	HA	ALA	7	-11.347	5.388	-0.892	1.00	0.00
ATOM	144	1HB	ALA	7	-13.247	5.195	1.375	1.00	0.00
ATOM	145	2HB	ALA	7	-13.913	5.620	-0.202	1.00	0.00
ATOM	146	3HB	ALA	7	-12.645	6.613	0.517	1.00	0.00
ATOM	147	N	PRO	8	-9.931	4.678	1.102	1.00	0.00
ATOM	148	CA	PRO	8	-8.991	4.136	2.087	1.00	0.00
ATOM	152	C	PRO	8	-9.501	4.311	3.516	1.00	0.00
ATOM	153	O	PRO	8	-9.067	5.208	4.241	1.00	0.00
ATOM	149	CB	PRO	8	-7.710	4.958	1.872	1.00	0.00
ATOM	150	CG	PRO	8	-7.959	5.797	0.659	1.00	0.00
ATOM	151	CD	PRO	8	-9.447	5.943	0.545	1.00	0.00
ATOM	154	HA	PRO	8	-8.788	3.090	1.907	1.00	0.00
ATOM	155	1HB	PRO	8	-6.877	4.289	1.721	1.00	0.00
ATOM	156	2HB	PRO	8	-7.528	5.572	2.741	1.00	0.00
ATOM	157	1HG	PRO	8	-7.563	5.302	-0.217	1.00	0.00
ATOM	158	2HG	PRO	8	-7.497	6.765	0.783	1.00	0.00
ATOM	159	1HD	PRO	8	-9.741	6.048	-0.488	1.00	0.00
ATOM	160	2HD	PRO	8	-9.794	6.785	1.129	1.00	0.00
ATOM	161	N	ASP	9	-10.437	3.457	3.909	1.00	0.00
ATOM	162	CA	ASP	9	-11.020	3.519	5.245	1.00	0.00
ATOM	167	C	ASP	9	-10.174	2.741	6.244	1.00	0.00
ATOM	168	O	ASP	9	-9.066	2.303	5.925	1.00	0.00
ATOM	163	CB	ASP	9	-12.448	2.970	5.235	1.00	0.00
ATOM	164	CG	ASP	9	-13.452	3.981	5.751	1.00	0.00
ATOM	165	OD1	ASP	9	-13.181	5.194	5.646	1.00	0.00
ATOM	166	OD2	ASP	9	-14.516	3.564	6.253	1.00	0.00
ATOM	169	H	ASP	9	-10.751	2.776	3.278	1.00	0.00
ATOM	170	HA	ASP	9	-11.045	4.555	5.546	1.00	0.00
ATOM	171	1HB	ASP	9	-12.493	2.089	5.861	1.00	0.00
ATOM	172	2HB	ASP	9	-12.719	2.702	4.224	1.00	0.00
ATOM	173	N	THR	10	-10.703	2.570	7.450	1.00	0.00
ATOM	174	CA	THR	10	-10.016	1.853	8.515	1.00	0.00
ATOM	178	C	THR	10	-9.626	0.440	8.088	1.00	0.00
ATOM	179	O	THR	10	-8.559	-0.048	8.447	1.00	0.00
ATOM	175	CB	THR	10	-10.899	1.787	9.770	1.00	0.00
ATOM	176	OG1	THR	10	-12.034	2.646	9.594	1.00	0.00
ATOM	177	CG2	THR	10	-10.120	2.212	11.006	1.00	0.00
ATOM	180	H	THR	10	-11.590	2.945	7.638	1.00	0.00
ATOM	181	HA	THR	10	-9.121	2.404	8.762	1.00	0.00
ATOM	182	HB	THR	10	-11.239	0.770	9.904	1.00	0.00
ATOM	183	HG1	THR	10	-12.851	2.118	9.671	1.00	0.00
ATOM	184	1HG2	THR	10	-9.450	3.019	10.747	1.00	0.00
ATOM	185	2HG2	THR	10	-9.549	1.376	11.379	1.00	0.00
ATOM	186	3HG2	THR	10	-10.810	2.545	11.768	1.00	0.00
ATOM	187	N	ARG	11	-10.485	-0.209	7.310	1.00	0.00
ATOM	188	CA	ARG	11	-10.210	-1.562	6.832	1.00	0.00
ATOM	196	C	ARG	11	-9.006	-1.566	5.904	1.00	0.00
ATOM	197	O	ARG	11	-8.206	-2.498	5.918	1.00	0.00



ATOM	189	CB	ARG	11	-11.435	-2.137	6.115	1.00	0.00
ATOM	190	CG	ARG	11	-11.340	-3.631	5.845	1.00	0.00
ATOM	191	CD	ARG	11	-12.516	-4.122	5.016	1.00	0.00
ATOM	192	NE	ARG	11	-12.097	-4.622	3.706	1.00	0.00
ATOM	193	CZ	ARG	11	-12.942	-4.879	2.701	1.00	0.00
ATOM	194	NH1	ARG	11	-14.246	-4.675	2.856	1.00	0.00
ATOM	195	NH2	ARG	11	-12.481	-5.347	1.551	1.00	0.00
ATOM	198	H	ARG	11	-11.320	0.234	7.048	1.00	0.00
ATOM	199	HA	ARG	11	-9.978	-2.177	7.689	1.00	0.00
ATOM	200	1HB	ARG	11	-11.556	-1.631	5.168	1.00	0.00
ATOM	201	2HB	ARG	11	-12.311	-1.959	6.721	1.00	0.00
ATOM	202	1HG	ARG	11	-11.331	-4.157	6.789	1.00	0.00
ATOM	203	2HG	ARG	11	-10.425	-3.833	5.308	1.00	0.00
ATOM	204	1HD	ARG	11	-13.205	-3.302	4.875	1.00	0.00
ATOM	205	2HD	ARG	11	-13.011	-4.917	5.553	1.00	0.00
ATOM	206	HE	ARG	11	-11.134	-4.779	3.569	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.604	-4.328	3.723	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.886	-4.874	2.099	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.494	-5.519	1.429	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.116	-5.527	0.785	1.00	0.00
ATOM	211	N	ALA	12	-8.863	-0.512	5.119	1.00	0.00
ATOM	212	CA	ALA	12	-7.736	-0.403	4.213	1.00	0.00
ATOM	214	C	ALA	12	-6.483	-0.027	4.994	1.00	0.00
ATOM	215	O	ALA	12	-5.388	-0.490	4.692	1.00	0.00
ATOM	213	CB	ALA	12	-8.021	0.622	3.125	1.00	0.00
ATOM	216	H	ALA	12	-9.518	0.216	5.165	1.00	0.00
ATOM	217	HA	ALA	12	-7.591	-1.368	3.746	1.00	0.00
ATOM	218	1HB	ALA	12	-7.154	0.722	2.489	1.00	0.00
ATOM	219	2HB	ALA	12	-8.247	1.576	3.578	1.00	0.00
ATOM	220	3HB	ALA	12	-8.865	0.295	2.534	1.00	0.00
ATOM	221	N	LEU	13	-6.665	0.813	6.007	1.00	0.00
ATOM	222	CA	LEU	13	-5.559	1.258	6.844	1.00	0.00
ATOM	227	C	LEU	13	-5.045	0.118	7.724	1.00	0.00
ATOM	228	O	LEU	13	-3.837	-0.057	7.875	1.00	0.00
ATOM	223	CB	LEU	13	-5.994	2.456	7.691	1.00	0.00
ATOM	224	CG	LEU	13	-5.173	2.709	8.956	1.00	0.00
ATOM	225	CD1	LEU	13	-3.829	3.333	8.609	1.00	0.00
ATOM	226	CD2	LEU	13	-5.948	3.605	9.909	1.00	0.00
ATOM	229	H	LEU	13	-7.574	1.145	6.198	1.00	0.00
ATOM	230	HA	LEU	13	-4.760	1.569	6.185	1.00	0.00
ATOM	231	1HB	LEU	13	-7.023	2.308	7.980	1.00	0.00
ATOM	232	2HB	LEU	13	-5.936	3.340	7.071	1.00	0.00
ATOM	233	HG	LEU	13	-4.988	1.769	9.454	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.329	2.723	7.872	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.220	3.395	9.498	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.985	4.325	8.210	1.00	0.00
ATOM	237	1HD2	LEU	13	-6.702	4.149	9.359	1.00	0.00
ATOM	238	2HD2	LEU	13	-5.270	4.304	10.377	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.421	3.000	10.667	1.00	0.00
ATOM	240	N	VAL	14	-5.958	-0.669	8.289	1.00	0.00
ATOM	241	CA	VAL	14	-5.558	-1.792	9.128	1.00	0.00
ATOM	245	C	VAL	14	-4.841	-2.834	8.272	1.00	0.00
ATOM	246	O	VAL	14	-3.895	-3.481	8.721	1.00	0.00
ATOM	242	CB	VAL	14	-6.758	-2.431	9.885	1.00	0.00
ATOM	243	CG1	VAL	14	-7.577	-3.347	8.987	1.00	0.00
ATOM	244	CG2	VAL	14	-6.269	-3.185	11.115	1.00	0.00
ATOM	247	H	VAL	14	-6.914	-0.497	8.132	1.00	0.00
ATOM	248	HA	VAL	14	-4.859	-1.413	9.861	1.00	0.00
ATOM	249	HB	VAL	14	-7.405	-1.634	10.221	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.374	-3.112	7.952	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.629	-3.205	9.190	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.309	-4.376	9.180	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.196	-3.100	11.187	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.544	-4.226	11.033	1.00	0.00
ATOM	255	3HG2	VAL	14	-6.724	-2.763	12.000	1.00	0.00
ATOM	256	N	ALA	15	-5.283	-2.965	7.023	1.00	0.00
ATOM	257	CA	ALA	15	-4.669	-3.901	6.091	1.00	0.00
ATOM	259	C	ALA	15	-3.318	-3.372	5.616	1.00	0.00
ATOM	260	O	ALA	15	-2.473	-4.133	5.150	1.00	0.00
ATOM	258	CB	ALA	15	-5.584	-4.150	4.901	1.00	0.00
ATOM	261	H	ALA	15	-6.035	-2.405	6.719	1.00	0.00
ATOM	262	HA	ALA	15	-4.519	-4.838	6.607	1.00	0.00
ATOM	263	1HB	ALA	15	-5.882	-5.188	4.887	1.00	0.00



ATOM	264	2HB	ALA	15	-5.059	-3.916	3.987	1.00	0.00
ATOM	265	3HB	ALA	15	-6.460	-3.525	4.983	1.00	0.00
ATOM	266	N	ASP	16	-3.129	-2.063	5.744	1.00	0.00
ATOM	267	CA	ASP	16	-1.889	-1.406	5.335	1.00	0.00
ATOM	272	C	ASP	16	-0.794	-1.624	6.371	1.00	0.00
ATOM	273	O	ASP	16	0.214	-2.268	6.088	1.00	0.00
ATOM	268	CB	ASP	16	-2.135	0.093	5.121	1.00	0.00
ATOM	269	CG	ASP	16	-0.936	0.979	5.451	1.00	0.00
ATOM	270	OD1	ASP	16	0.092	0.886	4.751	1.00	0.00
ATOM	271	OD2	ASP	16	-1.046	1.804	6.386	1.00	0.00
ATOM	274	H	ASP	16	-3.849	-1.515	6.122	1.00	0.00
ATOM	275	HA	ASP	16	-1.575	-1.847	4.403	1.00	0.00
ATOM	276	1HB	ASP	16	-2.963	0.401	5.743	1.00	0.00
ATOM	277	2HB	ASP	16	-2.396	0.258	4.086	1.00	0.00
ATOM	278	N	PHE	17	-1.002	-1.083	7.565	1.00	0.00
ATOM	279	CA	PHE	17	-0.030	-1.204	8.643	1.00	0.00
ATOM	287	C	PHE	17	0.291	-2.659	8.941	1.00	0.00
ATOM	288	O	PHE	17	1.456	-3.055	8.960	1.00	0.00
ATOM	280	CB	PHE	17	-0.533	-0.514	9.910	1.00	0.00
ATOM	281	CG	PHE	17	0.577	-0.101	10.834	1.00	0.00
ATOM	282	CD1	PHE	17	1.665	0.617	10.358	1.00	0.00
ATOM	283	CD2	PHE	17	0.541	-0.441	12.175	1.00	0.00
ATOM	284	CE1	PHE	17	2.691	0.988	11.206	1.00	0.00
ATOM	285	CE2	PHE	17	1.565	-0.074	13.026	1.00	0.00
ATOM	286	CZ	PHE	17	2.641	0.642	12.542	1.00	0.00
ATOM	289	H	PHE	17	-1.830	-0.576	7.718	1.00	0.00
ATOM	290	HA	PHE	17	0.877	-0.714	8.320	1.00	0.00
ATOM	291	1HB	PHE	17	-1.182	-1.191	10.447	1.00	0.00
ATOM	292	2HB	PHE	17	-1.089	0.371	9.636	1.00	0.00
ATOM	293	HD1	PHE	17	-0.301	-1.001	12.557	1.00	0.00
ATOM	294	HD2	PHE	17	1.705	0.889	9.313	1.00	0.00
ATOM	295	HE1	PHE	17	1.522	-0.346	14.071	1.00	0.00
ATOM	296	HE2	PHE	17	3.531	1.549	10.824	1.00	0.00
ATOM	297	HZ	PHE	17	3.443	0.930	13.206	1.00	0.00
ATOM	298	N	VAL	18	-0.740	-3.458	9.170	1.00	0.00
ATOM	299	CA	VAL	18	-0.549	-4.869	9.462	1.00	0.00
ATOM	303	C	VAL	18	-0.030	-5.598	8.226	1.00	0.00
ATOM	304	O	VAL	18	0.820	-6.476	8.328	1.00	0.00
ATOM	300	CB	VAL	18	-1.859	-5.525	9.957	1.00	0.00
ATOM	301	CG1	VAL	18	-1.653	-7.001	10.259	1.00	0.00
ATOM	302	CG2	VAL	18	-2.386	-4.798	11.187	1.00	0.00
ATOM	305	H	VAL	18	-1.652	-3.090	9.137	1.00	0.00
ATOM	306	HA	VAL	18	0.194	-4.949	10.248	1.00	0.00
ATOM	307	HB	VAL	18	-2.598	-5.442	9.174	1.00	0.00
ATOM	308	1HG1	VAL	18	-2.555	-7.410	10.691	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.836	-7.116	10.956	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.423	-7.527	9.345	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.429	-5.484	12.021	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.376	-4.419	10.984	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.728	-3.976	11.429	1.00	0.00
ATOM	314	N	GLY	19	-0.525	-5.210	7.058	1.00	0.00
ATOM	315	CA	GLY	19	-0.083	-5.827	5.823	1.00	0.00
ATOM	316	C	GLY	19	1.394	-5.613	5.572	1.00	0.00
ATOM	317	O	GLY	19	2.130	-6.566	5.337	1.00	0.00
ATOM	318	H	GLY	19	-1.186	-4.486	7.031	1.00	0.00
ATOM	319	1HA	GLY	19	-0.642	-5.406	5.001	1.00	0.00
ATOM	320	2HA	GLY	19	-0.278	-6.888	5.874	1.00	0.00
ATOM	321	N	TYR	20	1.820	-4.360	5.623	1.00	0.00
ATOM	322	CA	TYR	20	3.215	-3.999	5.407	1.00	0.00
ATOM	331	C	TYR	20	4.112	-4.632	6.473	1.00	0.00
ATOM	332	O	TYR	20	5.173	-5.176	6.164	1.00	0.00
ATOM	323	CB	TYR	20	3.367	-2.473	5.437	1.00	0.00
ATOM	324	CG	TYR	20	4.559	-1.947	4.667	1.00	0.00
ATOM	325	CD1	TYR	20	5.247	-2.752	3.769	1.00	0.00
ATOM	326	CD2	TYR	20	4.991	-0.637	4.838	1.00	0.00
ATOM	327	CE1	TYR	20	6.333	-2.268	3.065	1.00	0.00
ATOM	328	CE2	TYR	20	6.076	-0.147	4.138	1.00	0.00
ATOM	329	CZ	TYR	20	6.743	-0.966	3.253	1.00	0.00
ATOM	330	OH	TYR	20	7.826	-0.480	2.554	1.00	0.00
ATOM	333	H	TYR	20	1.170	-3.645	5.810	1.00	0.00
ATOM	334	HA	TYR	20	3.503	-4.362	4.431	1.00	0.00
ATOM	335	1HB	TYR	20	3.466	-2.151	6.464	1.00	0.00
ATOM	336	2HB	TYR	20	2.481	-2.024	5.013	1.00	0.00



ATOM	337	HD1	TYR	20	4.467	0.002	5.532	1.00	0.00
ATOM	338	HD2	TYR	20	4.923	-3.772	3.623	1.00	0.00
ATOM	339	HE1	TYR	20	6.397	0.874	4.286	1.00	0.00
ATOM	340	HE2	TYR	20	6.855	-2.911	2.371	1.00	0.00
ATOM	341	HH	TYR	20	8.603	-0.489	3.123	1.00	0.00
ATOM	342	N	LYS	21	3.668	-4.554	7.725	1.00	0.00
ATOM	343	CA	LYS	21	4.404	-5.105	8.859	1.00	0.00
ATOM	349	C	LYS	21	4.558	-6.616	8.736	1.00	0.00
ATOM	350	O	LYS	21	5.622	-7.167	9.016	1.00	0.00
ATOM	344	CB	LYS	21	3.682	-4.760	10.165	1.00	0.00
ATOM	345	CG	LYS	21	4.359	-3.654	10.962	1.00	0.00
ATOM	346	CD	LYS	21	5.693	-4.103	11.533	1.00	0.00
ATOM	347	CE	LYS	21	6.367	-2.982	12.314	1.00	0.00
ATOM	348	NZ	LYS	21	7.834	-2.929	12.070	1.00	0.00
ATOM	351	H	LYS	21	2.814	-4.107	7.891	1.00	0.00
ATOM	352	HA	LYS	21	5.384	-4.654	8.871	1.00	0.00
ATOM	353	1HB	LYS	21	3.628	-5.642	10.783	1.00	0.00
ATOM	354	2HB	LYS	21	2.679	-4.437	9.929	1.00	0.00
ATOM	355	1HG	LYS	21	3.710	-3.360	11.773	1.00	0.00
ATOM	356	2HG	LYS	21	4.528	-2.810	10.311	1.00	0.00
ATOM	357	1HD	LYS	21	6.338	-4.400	10.719	1.00	0.00
ATOM	358	2HD	LYS	21	5.529	-4.942	12.192	1.00	0.00
ATOM	359	1HE	LYS	21	6.191	-3.140	13.368	1.00	0.00
ATOM	360	2HE	LYS	21	5.929	-2.040	12.017	1.00	0.00
ATOM	361	1HZ	LYS	21	8.323	-3.623	12.673	1.00	0.00
ATOM	362	2HZ	LYS	21	8.204	-1.978	12.304	1.00	0.00
ATOM	363	3HZ	LYS	21	8.045	-3.141	11.072	1.00	0.00
ATOM	364	N	LEU	22	3.497	-7.281	8.309	1.00	0.00
ATOM	365	CA	LEU	22	3.525	-8.724	8.141	1.00	0.00
ATOM	370	C	LEU	22	4.346	-9.077	6.917	1.00	0.00
ATOM	371	O	LEU	22	5.155	-9.994	6.950	1.00	0.00
ATOM	366	CB	LEU	22	2.111	-9.287	7.984	1.00	0.00
ATOM	367	CG	LEU	22	1.462	-9.816	9.265	1.00	0.00
ATOM	368	CD1	LEU	22	1.489	-8.759	10.354	1.00	0.00
ATOM	369	CD2	LEU	22	0.036	-10.261	8.985	1.00	0.00
ATOM	372	H	LEU	22	2.673	-6.788	8.097	1.00	0.00
ATOM	373	HA	LEU	22	3.987	-9.158	9.016	1.00	0.00
ATOM	374	1HB	LEU	22	2.150	-10.096	7.271	1.00	0.00
ATOM	375	2HB	LEU	22	1.480	-8.507	7.583	1.00	0.00
ATOM	376	HG	LEU	22	2.017	-10.672	9.620	1.00	0.00
ATOM	377	1HD1	LEU	22	1.980	-9.159	11.230	1.00	0.00
ATOM	378	2HD1	LEU	22	0.477	-8.478	10.606	1.00	0.00
ATOM	379	3HD1	LEU	22	2.027	-7.892	10.003	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.388	-9.642	8.207	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.556	-10.164	9.883	1.00	0.00
ATOM	382	3HD2	LEU	22	0.036	-11.292	8.664	1.00	0.00
ATOM	383	N	ARG	23	4.123	-8.331	5.842	1.00	0.00
ATOM	384	CA	ARG	23	4.824	-8.533	4.578	1.00	0.00
ATOM	392	C	ARG	23	6.335	-8.426	4.752	1.00	0.00
ATOM	393	O	ARG	23	7.091	-9.104	4.064	1.00	0.00
ATOM	385	CB	ARG	23	4.349	-7.504	3.551	1.00	0.00
ATOM	386	CG	ARG	23	3.624	-8.095	2.357	1.00	0.00
ATOM	387	CD	ARG	23	3.692	-7.144	1.172	1.00	0.00
ATOM	388	NE	ARG	23	4.985	-6.463	1.099	1.00	0.00
ATOM	389	CZ	ARG	23	5.453	-5.863	0.008	1.00	0.00
ATOM	390	NH1	ARG	23	4.726	-5.840	-1.103	1.00	0.00
ATOM	391	NH2	ARG	23	6.649	-5.290	0.031	1.00	0.00
ATOM	394	H	ARG	23	3.455	-7.610	5.901	1.00	0.00
ATOM	395	HA	ARG	23	4.586	-9.521	4.218	1.00	0.00
ATOM	396	1HB	ARG	23	5.202	-6.959	3.182	1.00	0.00
ATOM	397	2HB	ARG	23	3.679	-6.812	4.037	1.00	0.00
ATOM	398	1HG	ARG	23	2.588	-8.263	2.617	1.00	0.00
ATOM	399	2HG	ARG	23	4.091	-9.031	2.086	1.00	0.00
ATOM	400	1HD	ARG	23	2.906	-6.403	1.273	1.00	0.00
ATOM	401	2HD	ARG	23	3.540	-7.705	0.262	1.00	0.00
ATOM	402	HE	ARG	23	5.538	-6.464	1.911	1.00	0.00
ATOM	403	1HH1	ARG	23	3.829	-6.273	-1.127	1.00	0.00
ATOM	404	2HH1	ARG	23	5.075	-5.374	-1.933	1.00	0.00
ATOM	405	1HH2	ARG	23	7.200	-5.306	0.865	1.00	0.00
ATOM	406	2HH2	ARG	23	7.013	-4.831	-0.796	1.00	0.00
ATOM	407	N	GLN	24	6.769	-7.562	5.660	1.00	0.00
ATOM	408	CA	GLN	24	8.197	-7.372	5.895	1.00	0.00
ATOM	414	C	GLN	24	8.763	-8.366	6.908	1.00	0.00



ATOM	415	O	GLN	24	9.975	-8.410	7.115	1.00	0.00
ATOM	409	CB	GLN	24	8.481	-5.947	6.364	1.00	0.00
ATOM	410	CG	GLN	24	8.105	-5.708	7.809	1.00	0.00
ATOM	411	CD	GLN	24	8.686	-4.427	8.377	1.00	0.00
ATOM	412	OE1	GLN	24	8.151	-3.852	9.332	1.00	0.00
ATOM	413	NE2	GLN	24	9.795	-3.975	7.805	1.00	0.00
ATOM	416	H	GLN	24	6.116	-7.028	6.174	1.00	0.00
ATOM	417	HA	GLN	24	8.696	-7.520	4.962	1.00	0.00
ATOM	418	1HB	GLN	24	7.922	-5.259	5.750	1.00	0.00
ATOM	419	2HB	GLN	24	9.535	-5.746	6.250	1.00	0.00
ATOM	420	1HG	GLN	24	8.462	-6.541	8.398	1.00	0.00
ATOM	421	2HG	GLN	24	7.034	-5.664	7.868	1.00	0.00
ATOM	422	1HE2	GLN	24	10.176	-4.487	7.057	1.00	0.00
ATOM	423	2HE2	GLN	24	10.192	-3.150	8.152	1.00	0.00
ATOM	424	N	LYS	25	7.904	-9.135	7.567	1.00	0.00
ATOM	425	CA	LYS	25	8.381	-10.074	8.585	1.00	0.00
ATOM	431	C	LYS	25	8.018	-11.534	8.300	1.00	0.00
ATOM	432	O	LYS	25	8.900	-12.389	8.225	1.00	0.00
ATOM	426	CB	LYS	25	7.845	-9.670	9.962	1.00	0.00
ATOM	427	CG	LYS	25	8.475	-8.400	10.517	1.00	0.00
ATOM	428	CD	LYS	25	8.740	-8.508	12.011	1.00	0.00
ATOM	429	CE	LYS	25	10.080	-9.165	12.300	1.00	0.00
ATOM	430	NZ	LYS	25	11.225	-8.331	11.848	1.00	0.00
ATOM	433	H	LYS	25	6.941	-9.048	7.392	1.00	0.00
ATOM	434	HA	LYS	25	9.457	-9.997	8.607	1.00	0.00
ATOM	435	1HB	LYS	25	8.033	-10.475	10.658	1.00	0.00
ATOM	436	2HB	LYS	25	6.778	-9.514	9.887	1.00	0.00
ATOM	437	1HG	LYS	25	7.804	-7.572	10.340	1.00	0.00
ATOM	438	2HG	LYS	25	9.410	-8.220	10.009	1.00	0.00
ATOM	439	1HD	LYS	25	7.955	-9.097	12.464	1.00	0.00
ATOM	440	2HD	LYS	25	8.739	-7.517	12.439	1.00	0.00
ATOM	441	1HE	LYS	25	10.117	-10.117	11.791	1.00	0.00
ATOM	442	2HE	LYS	25	10.164	-9.326	13.364	1.00	0.00
ATOM	443	1HZ	LYS	25	11.588	-8.682	10.933	1.00	0.00
ATOM	444	2HZ	LYS	25	11.996	-8.369	12.551	1.00	0.00
ATOM	445	3HZ	LYS	25	10.932	-7.339	11.731	1.00	0.00
ATOM	446	N	GLY	26	6.729	-11.829	8.184	1.00	0.00
ATOM	447	CA	GLY	26	6.308	-13.203	7.956	1.00	0.00
ATOM	448	C	GLY	26	5.621	-13.420	6.624	1.00	0.00
ATOM	449	O	GLY	26	5.946	-14.353	5.892	1.00	0.00
ATOM	450	H	GLY	26	6.060	-11.117	8.276	1.00	0.00
ATOM	451	1HA	GLY	26	5.626	-13.488	8.744	1.00	0.00
ATOM	452	2HA	GLY	26	7.171	-13.843	8.004	1.00	0.00
ATOM	453	N	TYR	27	4.668	-12.561	6.316	1.00	0.00
ATOM	454	CA	TYR	27	3.915	-12.654	5.073	1.00	0.00
ATOM	463	C	TYR	27	4.696	-12.034	3.912	1.00	0.00
ATOM	464	O	TYR	27	4.170	-11.222	3.151	1.00	0.00
ATOM	455	CB	TYR	27	2.554	-11.969	5.247	1.00	0.00
ATOM	456	CG	TYR	27	1.502	-12.407	4.249	1.00	0.00
ATOM	457	CD1	TYR	27	1.432	-13.723	3.807	1.00	0.00
ATOM	458	CD2	TYR	27	0.576	-11.500	3.752	1.00	0.00
ATOM	459	CE1	TYR	27	0.470	-14.119	2.896	1.00	0.00
ATOM	460	CE2	TYR	27	-0.389	-11.889	2.844	1.00	0.00
ATOM	461	CZ	TYR	27	-0.438	-13.198	2.418	1.00	0.00
ATOM	462	OH	TYR	27	-1.393	-13.584	1.505	1.00	0.00
ATOM	465	H	TYR	27	4.461	-11.840	6.943	1.00	0.00
ATOM	466	HA	TYR	27	3.755	-13.701	4.863	1.00	0.00
ATOM	467	1HB	TYR	27	2.682	-10.901	5.149	1.00	0.00
ATOM	468	2HB	TYR	27	2.177	-12.187	6.235	1.00	0.00
ATOM	469	HD1	TYR	27	2.145	-14.443	4.184	1.00	0.00
ATOM	470	HD2	TYR	27	0.616	-10.474	4.087	1.00	0.00
ATOM	471	HE1	TYR	27	0.432	-15.148	2.564	1.00	0.00
ATOM	472	HE2	TYR	27	-1.100	-11.167	2.470	1.00	0.00
ATOM	473	HH	TYR	27	-2.051	-14.149	1.942	1.00	0.00
ATOM	474	N	VAL	28	5.955	-12.432	3.788	1.00	0.00
ATOM	475	CA	VAL	28	6.821	-11.930	2.732	1.00	0.00
ATOM	479	C	VAL	28	6.528	-12.647	1.415	1.00	0.00
ATOM	480	O	VAL	28	6.715	-12.089	0.332	1.00	0.00
ATOM	476	CB	VAL	28	8.316	-12.082	3.108	1.00	0.00
ATOM	477	CG1	VAL	28	8.723	-13.547	3.200	1.00	0.00
ATOM	478	CG2	VAL	28	9.200	-11.339	2.116	1.00	0.00
ATOM	481	H	VAL	28	6.311	-13.086	4.429	1.00	0.00
ATOM	482	HA	VAL	28	6.609	-10.878	2.607	1.00	0.00



ATOM	483	HB	VAL	28	8.462	-11.637	4.083	1.00	0.00
ATOM	484	1HG1	VAL	28	9.013	-13.778	4.215	1.00	0.00
ATOM	485	2HG1	VAL	28	9.555	-13.731	2.538	1.00	0.00
ATOM	486	3HG1	VAL	28	7.889	-14.171	2.911	1.00	0.00
ATOM	487	1HG2	VAL	28	10.172	-11.809	2.076	1.00	0.00
ATOM	488	2HG2	VAL	28	9.309	-10.312	2.430	1.00	0.00
ATOM	489	3HG2	VAL	28	8.745	-11.371	1.138	1.00	0.00
ATOM	490	N	CYS	29	6.045	-13.878	1.521	1.00	0.00
ATOM	491	CA	CYS	29	5.701	-14.673	0.352	1.00	0.00
ATOM	494	C	CYS	29	4.465	-14.090	-0.313	1.00	0.00
ATOM	495	O	CYS	29	4.393	-13.961	-1.537	1.00	0.00
ATOM	492	CB	CYS	29	5.444	-16.120	0.769	1.00	0.00
ATOM	493	SG	CYS	29	5.414	-16.363	2.564	1.00	0.00
ATOM	496	H	CYS	29	5.903	-14.258	2.412	1.00	0.00
ATOM	497	HA	CYS	29	6.530	-14.638	-0.338	1.00	0.00
ATOM	498	1HB	CYS	29	6.221	-16.748	0.364	1.00	0.00
ATOM	499	2HB	CYS	29	4.489	-16.437	0.377	1.00	0.00
ATOM	500	HG	CYS	29	4.810	-17.520	2.811	1.00	0.00
ATOM	501	N	GLY	30	3.501	-13.715	0.514	1.00	0.00
ATOM	502	CA	GLY	30	2.278	-13.130	0.019	1.00	0.00
ATOM	503	C	GLY	30	2.376	-11.626	-0.099	1.00	0.00
ATOM	504	O	GLY	30	1.600	-10.891	0.514	1.00	0.00
ATOM	505	H	GLY	30	3.629	-13.829	1.477	1.00	0.00
ATOM	506	1HA	GLY	30	1.476	-13.374	0.694	1.00	0.00
ATOM	507	2HA	GLY	30	2.056	-13.546	-0.953	1.00	0.00
ATOM	508	N	ALA	31	3.331	-11.173	-0.893	1.00	0.00
ATOM	509	CA	ALA	31	3.536	-9.751	-1.114	1.00	0.00
ATOM	511	C	ALA	31	2.295	-9.151	-1.764	1.00	0.00
ATOM	512	O	ALA	31	1.931	-9.526	-2.878	1.00	0.00
ATOM	510	CB	ALA	31	4.768	-9.522	-1.979	1.00	0.00
ATOM	513	H	ALA	31	3.908	-11.820	-1.350	1.00	0.00
ATOM	514	HA	ALA	31	3.696	-9.280	-0.154	1.00	0.00
ATOM	515	1HB	ALA	31	4.589	-8.693	-2.648	1.00	0.00
ATOM	516	2HB	ALA	31	4.974	-10.412	-2.555	1.00	0.00
ATOM	517	3HB	ALA	31	5.615	-9.299	-1.347	1.00	0.00
ATOM	518	N	GLY	32	1.627	-8.245	-1.057	1.00	0.00
ATOM	519	CA	GLY	32	0.417	-7.653	-1.593	1.00	0.00
ATOM	520	C	GLY	32	-0.227	-6.647	-0.656	1.00	0.00
ATOM	521	O	GLY	32	-0.476	-5.521	-1.060	1.00	0.00
ATOM	522	H	GLY	32	1.945	-7.992	-0.161	1.00	0.00
ATOM	523	1HA	GLY	32	-0.293	-8.440	-1.799	1.00	0.00
ATOM	524	2HA	GLY	32	0.659	-7.155	-2.522	1.00	0.00
ATOM	525	N	PRO	33	-0.520	-7.011	0.610	1.00	0.00
ATOM	526	CA	PRO	33	-1.146	-6.082	1.557	1.00	0.00
ATOM	530	C	PRO	33	-0.269	-4.858	1.789	1.00	0.00
ATOM	531	O	PRO	33	-0.721	-3.723	1.673	1.00	0.00
ATOM	527	CB	PRO	33	-1.288	-6.908	2.840	1.00	0.00
ATOM	528	CG	PRO	33	-1.213	-8.327	2.393	1.00	0.00
ATOM	529	CD	PRO	33	-0.280	-8.328	1.219	1.00	0.00
ATOM	532	HA	PRO	33	-2.120	-5.765	1.212	1.00	0.00
ATOM	533	1HB	PRO	33	-2.237	-6.692	3.307	1.00	0.00
ATOM	534	2HB	PRO	33	-0.484	-6.664	3.519	1.00	0.00
ATOM	535	1HG	PRO	33	-2.192	-8.674	2.097	1.00	0.00
ATOM	536	2HG	PRO	33	-0.818	-8.942	3.188	1.00	0.00
ATOM	537	1HD	PRO	33	-0.527	-9.121	0.532	1.00	0.00
ATOM	538	2HD	PRO	33	0.744	-8.421	1.550	1.00	0.00
ATOM	539	N	GLY	34	0.997	-5.108	2.088	1.00	0.00
ATOM	540	CA	GLY	34	1.939	-4.032	2.310	1.00	0.00
ATOM	541	C	GLY	34	2.604	-3.570	1.026	1.00	0.00
ATOM	542	O	GLY	34	3.753	-3.137	1.047	1.00	0.00
ATOM	543	H	GLY	34	1.297	-6.034	2.150	1.00	0.00
ATOM	544	1HA	GLY	34	2.705	-4.379	2.990	1.00	0.00
ATOM	545	2HA	GLY	34	1.426	-3.201	2.764	1.00	0.00
ATOM	546	N	GLU	35	1.895	-3.681	-0.099	1.00	0.00
ATOM	547	CA	GLU	35	2.452	-3.272	-1.388	1.00	0.00
ATOM	553	C	GLU	35	2.691	-1.761	-1.427	1.00	0.00
ATOM	554	O	GLU	35	3.692	-1.295	-1.972	1.00	0.00
ATOM	548	CB	GLU	35	1.539	-3.691	-2.548	1.00	0.00
ATOM	549	CG	GLU	35	0.195	-2.973	-2.583	1.00	0.00
ATOM	550	CD	GLU	35	-0.098	-2.334	-3.928	1.00	0.00
ATOM	551	OE1	GLU	35	0.860	-1.978	-4.643	1.00	0.00
ATOM	552	OE2	GLU	35	-1.293	-2.184	-4.269	1.00	0.00
ATOM	555	H	GLU	35	0.987	-4.055	-0.063	1.00	0.00



ATOM	556	HA	GLU	35	3.402	-3.777	-1.495	1.00	0.00
ATOM	557	1HB	GLU	35	1.350	-4.752	-2.473	1.00	0.00
ATOM	558	2HB	GLU	35	2.049	-3.493	-3.479	1.00	0.00
ATOM	559	1HG	GLU	35	0.194	-2.203	-1.827	1.00	0.00
ATOM	560	2HG	GLU	35	-0.583	-3.689	-2.368	1.00	0.00
ATOM	561	N	GLY	36	1.769	-1.007	-0.835	1.00	0.00
ATOM	562	CA	GLY	36	1.890	0.436	-0.799	1.00	0.00
ATOM	563	C	GLY	36	2.169	0.934	0.602	1.00	0.00
ATOM	564	O	GLY	36	1.524	0.497	1.551	1.00	0.00
ATOM	565	H	GLY	36	1.000	-1.438	-0.409	1.00	0.00
ATOM	566	1HA	GLY	36	0.969	0.877	-1.152	1.00	0.00
ATOM	567	2HA	GLY	36	2.698	0.738	-1.448	1.00	0.00
ATOM	568	N	PRO	37	3.148	1.831	0.769	1.00	0.00
ATOM	569	CA	PRO	37	3.516	2.352	2.076	1.00	0.00
ATOM	573	C	PRO	37	2.733	3.605	2.485	1.00	0.00
ATOM	574	O	PRO	37	1.537	3.743	2.210	1.00	0.00
ATOM	570	CB	PRO	37	4.995	2.677	1.884	1.00	0.00
ATOM	571	CG	PRO	37	5.119	3.074	0.448	1.00	0.00
ATOM	572	CD	PRO	37	3.998	2.384	-0.299	1.00	0.00
ATOM	575	HA	PRO	37	3.411	1.600	2.843	1.00	0.00
ATOM	576	1HB	PRO	37	5.589	1.802	2.102	1.00	0.00
ATOM	577	2HB	PRO	37	5.276	3.484	2.543	1.00	0.00
ATOM	578	1HG	PRO	37	6.075	2.752	0.063	1.00	0.00
ATOM	579	2HG	PRO	37	5.021	4.145	0.357	1.00	0.00
ATOM	580	1HD	PRO	37	4.392	1.595	-0.923	1.00	0.00
ATOM	581	2HD	PRO	37	3.449	3.097	-0.896	1.00	0.00
ATOM	582	N	ALA	38	3.432	4.509	3.160	1.00	0.00
ATOM	583	CA	ALA	38	2.855	5.754	3.645	1.00	0.00
ATOM	585	C	ALA	38	2.472	6.690	2.503	1.00	0.00
ATOM	586	O	ALA	38	3.336	7.284	1.864	1.00	0.00
ATOM	584	CB	ALA	38	3.845	6.439	4.570	1.00	0.00
ATOM	587	H	ALA	38	4.372	4.327	3.346	1.00	0.00
ATOM	588	HA	ALA	38	1.971	5.515	4.216	1.00	0.00
ATOM	589	1HB	ALA	38	4.730	5.828	4.666	1.00	0.00
ATOM	590	2HB	ALA	38	3.395	6.575	5.543	1.00	0.00
ATOM	591	3HB	ALA	38	4.114	7.402	4.162	1.00	0.00
ATOM	592	N	ALA	39	1.174	6.819	2.255	1.00	0.00
ATOM	593	CA	ALA	39	0.686	7.691	1.192	1.00	0.00
ATOM	595	C	ALA	39	-0.667	8.303	1.550	1.00	0.00
ATOM	596	O	ALA	39	-0.966	9.436	1.176	1.00	0.00
ATOM	594	CB	ALA	39	0.586	6.921	-0.117	1.00	0.00
ATOM	597	H	ALA	39	0.533	6.316	2.796	1.00	0.00
ATOM	598	HA	ALA	39	1.405	8.487	1.059	1.00	0.00
ATOM	599	1HB	ALA	39	-0.389	6.461	-0.189	1.00	0.00
ATOM	600	2HB	ALA	39	1.347	6.157	-0.145	1.00	0.00
ATOM	601	3HB	ALA	39	0.728	7.600	-0.945	1.00	0.00
ATOM	602	N	ASP	40	-1.477	7.543	2.271	1.00	0.00
ATOM	603	CA	ASP	40	-2.808	7.983	2.673	1.00	0.00
ATOM	608	C	ASP	40	-2.744	8.923	3.869	1.00	0.00
ATOM	609	O	ASP	40	-1.737	8.961	4.581	1.00	0.00
ATOM	604	CB	ASP	40	-3.667	6.773	3.041	1.00	0.00
ATOM	605	CG	ASP	40	-4.055	5.927	1.848	1.00	0.00
ATOM	606	OD1	ASP	40	-3.986	6.428	0.711	1.00	0.00
ATOM	607	OD2	ASP	40	-4.414	4.751	2.057	1.00	0.00
ATOM	610	H	ASP	40	-1.183	6.657	2.531	1.00	0.00
ATOM	611	HA	ASP	40	-3.260	8.497	1.838	1.00	0.00
ATOM	612	1HB	ASP	40	-4.566	7.120	3.523	1.00	0.00
ATOM	613	2HB	ASP	40	-3.116	6.150	3.730	1.00	0.00
ATOM	614	N	PRO	41	-3.839	9.663	4.127	1.00	0.00
ATOM	615	CA	PRO	41	-3.937	10.589	5.255	1.00	0.00
ATOM	619	C	PRO	41	-4.199	9.851	6.565	1.00	0.00
ATOM	620	O	PRO	41	-5.083	10.207	7.341	1.00	0.00
ATOM	616	CB	PRO	41	-5.112	11.496	4.883	1.00	0.00
ATOM	617	CG	PRO	41	-5.924	10.745	3.874	1.00	0.00
ATOM	618	CD	PRO	41	-5.081	9.615	3.340	1.00	0.00
ATOM	621	HA	PRO	41	-3.038	11.181	5.354	1.00	0.00
ATOM	622	1HB	PRO	41	-4.735	12.419	4.469	1.00	0.00
ATOM	623	2HB	PRO	41	-5.692	11.709	5.768	1.00	0.00
ATOM	624	1HG	PRO	41	-6.202	11.410	3.070	1.00	0.00
ATOM	625	2HG	PRO	41	-6.809	10.348	4.347	1.00	0.00
ATOM	626	1HD	PRO	41	-4.869	9.754	2.290	1.00	0.00
ATOM	627	2HD	PRO	41	-5.583	8.672	3.492	1.00	0.00
ATOM	628	N	LEU	42	-3.393	8.817	6.780	1.00	0.00



ATOM	629	CA	LEU	42	-3.446	7.969	7.967	1.00	0.00
ATOM	634	C	LEU	42	-2.325	6.950	7.866	1.00	0.00
ATOM	635	O	LEU	42	-1.770	6.507	8.868	1.00	0.00
ATOM	630	CB	LEU	42	-4.790	7.241	8.117	1.00	0.00
ATOM	631	CG	LEU	42	-5.621	7.086	6.837	1.00	0.00
ATOM	632	CD1	LEU	42	-5.436	5.703	6.237	1.00	0.00
ATOM	633	CD2	LEU	42	-7.091	7.349	7.122	1.00	0.00
ATOM	636	H	LEU	42	-2.713	8.625	6.105	1.00	0.00
ATOM	637	HA	LEU	42	-3.271	8.594	8.833	1.00	0.00
ATOM	638	1HB	LEU	42	-5.384	7.782	8.839	1.00	0.00
ATOM	639	2HB	LEU	42	-4.588	6.256	8.512	1.00	0.00
ATOM	640	HG	LEU	42	-5.286	7.811	6.110	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.961	4.977	6.838	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.384	5.458	6.213	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.832	5.691	5.232	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.647	6.429	7.019	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.468	8.078	6.422	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.200	7.725	8.128	1.00	0.00
ATOM	647	N	HIS	43	-1.990	6.605	6.625	1.00	0.00
ATOM	648	CA	HIS	43	-0.920	5.656	6.336	1.00	0.00
ATOM	655	C	HIS	43	0.403	6.200	6.845	1.00	0.00
ATOM	656	O	HIS	43	1.074	5.576	7.663	1.00	0.00
ATOM	649	CB	HIS	43	-0.797	5.453	4.830	1.00	0.00
ATOM	650	CG	HIS	43	-1.549	4.284	4.263	1.00	0.00
ATOM	651	ND1	HIS	43	-1.087	3.561	3.184	1.00	0.00
ATOM	652	CD2	HIS	43	-2.768	3.769	4.563	1.00	0.00
ATOM	653	CE1	HIS	43	-1.988	2.667	2.839	1.00	0.00
ATOM	654	NE2	HIS	43	-3.019	2.768	3.658	1.00	0.00
ATOM	657	H	HIS	43	-2.474	7.011	5.878	1.00	0.00
ATOM	658	HA	HIS	43	-1.139	4.720	6.824	1.00	0.00
ATOM	659	1HB	HIS	43	0.245	5.329	4.592	1.00	0.00
ATOM	660	2HB	HIS	43	-1.161	6.340	4.334	1.00	0.00
ATOM	661	HD1	HIS	43	-0.202	3.652	2.761	1.00	0.00
ATOM	662	HD2	HIS	43	-3.420	4.087	5.368	1.00	0.00
ATOM	663	HE1	HIS	43	-1.901	1.974	2.019	1.00	0.00
ATOM	664	HE2	HIS	43	-3.900	2.376	3.489	1.00	0.00
ATOM	665	N	GLN	44	0.766	7.383	6.343	1.00	0.00
ATOM	666	CA	GLN	44	2.013	8.035	6.739	1.00	0.00
ATOM	672	C	GLN	44	2.031	8.274	8.240	1.00	0.00
ATOM	673	O	GLN	44	3.086	8.305	8.867	1.00	0.00
ATOM	667	CB	GLN	44	2.202	9.370	6.004	1.00	0.00
ATOM	668	CG	GLN	44	1.347	9.533	4.754	1.00	0.00
ATOM	669	CD	GLN	44	0.902	10.968	4.537	1.00	0.00
ATOM	670	OE1	GLN	44	1.137	11.835	5.373	1.00	0.00
ATOM	671	NE2	GLN	44	0.251	11.225	3.413	1.00	0.00
ATOM	674	H	GLN	44	0.178	7.825	5.689	1.00	0.00
ATOM	675	HA	GLN	44	2.828	7.374	6.483	1.00	0.00
ATOM	676	1HB	GLN	44	3.238	9.460	5.716	1.00	0.00
ATOM	677	2HB	GLN	44	1.959	10.176	6.681	1.00	0.00
ATOM	678	1HG	GLN	44	0.471	8.909	4.847	1.00	0.00
ATOM	679	2HG	GLN	44	1.923	9.217	3.897	1.00	0.00
ATOM	680	1HE2	GLN	44	0.090	10.488	2.786	1.00	0.00
ATOM	681	2HE2	GLN	44	-0.043	12.146	3.252	1.00	0.00
ATOM	682	N	ALA	45	0.843	8.428	8.800	1.00	0.00
ATOM	683	CA	ALA	45	0.691	8.662	10.223	1.00	0.00
ATOM	685	C	ALA	45	1.062	7.431	11.041	1.00	0.00
ATOM	686	O	ALA	45	1.903	7.509	11.939	1.00	0.00
ATOM	684	CB	ALA	45	-0.733	9.089	10.530	1.00	0.00
ATOM	687	H	ALA	45	0.044	8.374	8.235	1.00	0.00
ATOM	688	HA	ALA	45	1.348	9.474	10.497	1.00	0.00
ATOM	689	1HB	ALA	45	-1.104	8.524	11.372	1.00	0.00
ATOM	690	2HB	ALA	45	-1.357	8.904	9.668	1.00	0.00
ATOM	691	3HB	ALA	45	-0.750	10.141	10.768	1.00	0.00
ATOM	692	N	MET	46	0.433	6.296	10.747	1.00	0.00
ATOM	693	CA	MET	46	0.713	5.075	11.496	1.00	0.00
ATOM	698	C	MET	46	2.125	4.568	11.243	1.00	0.00
ATOM	699	O	MET	46	2.773	4.046	12.148	1.00	0.00
ATOM	694	CB	MET	46	-0.294	3.979	11.163	1.00	0.00
ATOM	695	CG	MET	46	-0.778	3.229	12.393	1.00	0.00
ATOM	696	SD	MET	46	-2.069	4.116	13.279	1.00	0.00
ATOM	697	CE	MET	46	-3.088	4.655	11.913	1.00	0.00
ATOM	700	H	MET	46	-0.245	6.280	10.021	1.00	0.00
ATOM	701	HA	MET	46	0.623	5.315	12.546	1.00	0.00



ATOM	702	1HB	MET	46	0.168	3.270	10.492	1.00	0.00
ATOM	703	2HB	MET	46	-1.148	4.423	10.674	1.00	0.00
ATOM	704	1HG	MET	46	0.057	3.086	13.060	1.00	0.00
ATOM	705	2HG	MET	46	-1.163	2.269	12.091	1.00	0.00
ATOM	706	1HE	MET	46	-2.458	4.987	11.102	1.00	0.00
ATOM	707	2HE	MET	46	-3.721	5.470	12.235	1.00	0.00
ATOM	708	3HE	MET	46	-3.704	3.833	11.578	1.00	0.00
ATOM	709	N	ARG	47	2.592	4.714	10.011	1.00	0.00
ATOM	710	CA	ARG	47	3.925	4.252	9.637	1.00	0.00
ATOM	718	C	ARG	47	5.019	4.970	10.426	1.00	0.00
ATOM	719	O	ARG	47	6.022	4.359	10.804	1.00	0.00
ATOM	711	CB	ARG	47	4.156	4.448	8.137	1.00	0.00
ATOM	712	CG	ARG	47	4.927	3.308	7.487	1.00	0.00
ATOM	713	CD	ARG	47	5.823	3.803	6.361	1.00	0.00
ATOM	714	NE	ARG	47	6.899	4.663	6.851	1.00	0.00
ATOM	715	CZ	ARG	47	7.671	5.422	6.075	1.00	0.00
ATOM	716	NH1	ARG	47	7.514	5.414	4.755	1.00	0.00
ATOM	717	NH2	ARG	47	8.608	6.179	6.628	1.00	0.00
ATOM	720	H	ARG	47	2.020	5.131	9.329	1.00	0.00
ATOM	721	HA	ARG	47	3.978	3.197	9.861	1.00	0.00
ATOM	722	1HB	ARG	47	4.710	5.362	7.986	1.00	0.00
ATOM	723	2HB	ARG	47	3.198	4.532	7.645	1.00	0.00
ATOM	724	1HG	ARG	47	4.225	2.593	7.087	1.00	0.00
ATOM	725	2HG	ARG	47	5.542	2.831	8.236	1.00	0.00
ATOM	726	1HD	ARG	47	5.222	4.362	5.659	1.00	0.00
ATOM	727	2HD	ARG	47	6.257	2.950	5.862	1.00	0.00
ATOM	728	HE	ARG	47	7.057	4.680	7.829	1.00	0.00
ATOM	729	1HH1	ARG	47	6.819	4.837	4.336	1.00	0.00
ATOM	730	2HH1	ARG	47	8.103	5.994	4.168	1.00	0.00
ATOM	731	1HH2	ARG	47	8.729	6.176	7.629	1.00	0.00
ATOM	732	2HH2	ARG	47	9.203	6.760	6.056	1.00	0.00
ATOM	733	N	ALA	48	4.831	6.259	10.681	1.00	0.00
ATOM	734	CA	ALA	48	5.825	7.024	11.419	1.00	0.00
ATOM	736	C	ALA	48	5.684	6.784	12.909	1.00	0.00
ATOM	737	O	ALA	48	6.680	6.614	13.615	1.00	0.00
ATOM	735	CB	ALA	48	5.713	8.503	11.097	1.00	0.00
ATOM	738	H	ALA	48	4.008	6.704	10.373	1.00	0.00
ATOM	739	HA	ALA	48	6.804	6.683	11.106	1.00	0.00
ATOM	740	1HB	ALA	48	5.477	9.052	11.997	1.00	0.00
ATOM	741	2HB	ALA	48	4.932	8.653	10.367	1.00	0.00
ATOM	742	3HB	ALA	48	6.652	8.856	10.698	1.00	0.00
ATOM	743	N	ALA	49	4.443	6.746	13.376	1.00	0.00
ATOM	744	CA	ALA	49	4.170	6.496	14.779	1.00	0.00
ATOM	746	C	ALA	49	4.747	5.149	15.166	1.00	0.00
ATOM	747	O	ALA	49	5.531	5.046	16.112	1.00	0.00
ATOM	745	CB	ALA	49	2.678	6.535	15.040	1.00	0.00
ATOM	748	H	ALA	49	3.691	6.873	12.756	1.00	0.00
ATOM	749	HA	ALA	49	4.645	7.271	15.365	1.00	0.00
ATOM	750	1HB	ALA	49	2.147	6.513	14.101	1.00	0.00
ATOM	751	2HB	ALA	49	2.429	7.441	15.574	1.00	0.00
ATOM	752	3HB	ALA	49	2.395	5.678	15.633	1.00	0.00
ATOM	753	N	GLY	50	4.361	4.128	14.406	1.00	0.00
ATOM	754	CA	GLY	50	4.846	2.785	14.637	1.00	0.00
ATOM	755	C	GLY	50	6.355	2.730	14.737	1.00	0.00
ATOM	756	O	GLY	50	6.880	2.148	15.665	1.00	0.00
ATOM	757	H	GLY	50	3.735	4.295	13.669	1.00	0.00
ATOM	758	1HA	GLY	50	4.527	2.153	13.821	1.00	0.00
ATOM	759	2HA	GLY	50	4.419	2.414	15.557	1.00	0.00
ATOM	760	N	ASP	51	7.044	3.354	13.784	1.00	0.00
ATOM	761	CA	ASP	51	8.509	3.386	13.775	1.00	0.00
ATOM	766	C	ASP	51	9.066	3.987	15.067	1.00	0.00
ATOM	767	O	ASP	51	9.956	3.415	15.702	1.00	0.00
ATOM	762	CB	ASP	51	9.008	4.206	12.583	1.00	0.00
ATOM	763	CG	ASP	51	10.461	3.926	12.255	1.00	0.00
ATOM	764	OD1	ASP	51	10.897	2.768	12.400	1.00	0.00
ATOM	765	OD2	ASP	51	11.173	4.869	11.852	1.00	0.00
ATOM	768	H	ASP	51	6.559	3.810	13.068	1.00	0.00
ATOM	769	HA	ASP	51	8.864	2.371	13.681	1.00	0.00
ATOM	770	1HB	ASP	51	8.908	5.257	12.814	1.00	0.00
ATOM	771	2HB	ASP	51	8.408	3.976	11.714	1.00	0.00
ATOM	772	N	GLU	52	8.539	5.146	15.449	1.00	0.00
ATOM	773	CA	GLU	52	8.982	5.831	16.659	1.00	0.00
ATOM	779	C	GLU	52	8.717	4.976	17.898	1.00	0.00



ATOM	780	O	GLU	52	9.576	4.850	18.775	1.00	0.00
ATOM	774	CB	GLU	52	8.278	7.189	16.784	1.00	0.00
ATOM	775	CG	GLU	52	8.569	7.917	18.089	1.00	0.00
ATOM	776	CD	GLU	52	8.923	9.379	17.890	1.00	0.00
ATOM	777	OE1	GLU	52	8.020	10.181	17.572	1.00	0.00
ATOM	778	OE2	GLU	52	10.105	9.734	18.075	1.00	0.00
ATOM	781	H	GLU	52	7.833	5.553	14.900	1.00	0.00
ATOM	782	HA	GLU	52	10.045	5.995	16.575	1.00	0.00
ATOM	783	1HB	GLU	52	7.210	7.036	16.714	1.00	0.00
ATOM	784	2HB	GLU	52	8.596	7.821	15.968	1.00	0.00
ATOM	785	1HG	GLU	52	9.397	7.426	18.580	1.00	0.00
ATOM	786	2HG	GLU	52	7.695	7.861	18.720	1.00	0.00
ATOM	787	N	PHE	53	7.535	4.378	17.965	1.00	0.00
ATOM	788	CA	PHE	53	7.182	3.535	19.097	1.00	0.00
ATOM	796	C	PHE	53	7.930	2.212	19.045	1.00	0.00
ATOM	797	O	PHE	53	8.289	1.669	20.076	1.00	0.00
ATOM	789	CB	PHE	53	5.678	3.291	19.153	1.00	0.00
ATOM	790	CG	PHE	53	5.038	3.829	20.402	1.00	0.00
ATOM	791	CD1	PHE	53	5.230	5.148	20.783	1.00	0.00
ATOM	792	CD2	PHE	53	4.249	3.014	21.198	1.00	0.00
ATOM	793	CE1	PHE	53	4.646	5.643	21.933	1.00	0.00
ATOM	794	CE2	PHE	53	3.665	3.504	22.350	1.00	0.00
ATOM	795	CZ	PHE	53	3.863	4.820	22.719	1.00	0.00
ATOM	798	H	PHE	53	6.887	4.505	17.234	1.00	0.00
ATOM	799	HA	PHE	53	7.479	4.058	19.994	1.00	0.00
ATOM	800	1HB	PHE	53	5.490	2.227	19.111	1.00	0.00
ATOM	801	2HB	PHE	53	5.210	3.769	18.306	1.00	0.00
ATOM	802	HD1	PHE	53	4.093	1.984	20.912	1.00	0.00
ATOM	803	HD2	PHE	53	5.841	5.793	20.170	1.00	0.00
ATOM	804	HE1	PHE	53	3.051	2.859	22.962	1.00	0.00
ATOM	805	HE2	PHE	53	4.804	6.674	22.219	1.00	0.00
ATOM	806	HZ	PHE	53	3.407	5.205	23.619	1.00	0.00
ATOM	807	N	GLU	54	8.182	1.712	17.847	1.00	0.00
ATOM	808	CA	GLU	54	8.912	0.462	17.669	1.00	0.00
ATOM	814	C	GLU	54	10.335	0.627	18.208	1.00	0.00
ATOM	815	O	GLU	54	10.977	-0.331	18.643	1.00	0.00
ATOM	809	CB	GLU	54	8.916	0.073	16.180	1.00	0.00
ATOM	810	CG	GLU	54	9.696	-1.190	15.854	1.00	0.00
ATOM	811	CD	GLU	54	9.333	-1.774	14.496	1.00	0.00
ATOM	812	OE1	GLU	54	8.955	-1.004	13.586	1.00	0.00
ATOM	813	OE2	GLU	54	9.431	-3.008	14.320	1.00	0.00
ATOM	816	H	GLU	54	7.878	2.204	17.048	1.00	0.00
ATOM	817	HA	GLU	54	8.407	-0.306	18.239	1.00	0.00
ATOM	818	1HB	GLU	54	9.331	0.892	15.603	1.00	0.00
ATOM	819	2HB	GLU	54	7.894	-0.082	15.867	1.00	0.00
ATOM	820	1HG	GLU	54	9.488	-1.928	16.613	1.00	0.00
ATOM	821	2HG	GLU	54	10.750	-0.959	15.858	1.00	0.00
ATOM	822	N	THR	55	10.806	1.868	18.193	1.00	0.00
ATOM	823	CA	THR	55	12.132	2.197	18.687	1.00	0.00
ATOM	827	C	THR	55	12.112	2.513	20.193	1.00	0.00
ATOM	828	O	THR	55	13.123	2.365	20.878	1.00	0.00
ATOM	824	CB	THR	55	12.712	3.402	17.915	1.00	0.00
ATOM	825	OG1	THR	55	12.618	3.173	16.501	1.00	0.00
ATOM	826	CG2	THR	55	14.164	3.646	18.294	1.00	0.00
ATOM	829	H	THR	55	10.236	2.586	17.843	1.00	0.00
ATOM	830	HA	THR	55	12.775	1.345	18.514	1.00	0.00
ATOM	831	HB	THR	55	12.136	4.284	18.167	1.00	0.00
ATOM	832	HG1	THR	55	11.699	2.971	16.264	1.00	0.00
ATOM	833	1HG2	THR	55	14.251	4.599	18.794	1.00	0.00
ATOM	834	2HG2	THR	55	14.772	3.650	17.402	1.00	0.00
ATOM	835	3HG2	THR	55	14.502	2.859	18.954	1.00	0.00
ATOM	836	N	ARG	56	10.966	2.959	20.707	1.00	0.00
ATOM	837	CA	ARG	56	10.852	3.306	22.126	1.00	0.00
ATOM	845	C	ARG	56	10.192	2.184	22.940	1.00	0.00
ATOM	846	O	ARG	56	10.755	1.699	23.920	1.00	0.00
ATOM	838	CB	ARG	56	10.058	4.609	22.291	1.00	0.00
ATOM	839	CG	ARG	56	10.824	5.861	21.868	1.00	0.00
ATOM	840	CD	ARG	56	10.081	7.131	22.267	1.00	0.00
ATOM	841	NE	ARG	56	10.213	8.196	21.270	1.00	0.00
ATOM	842	CZ	ARG	56	10.404	9.483	21.571	1.00	0.00
ATOM	843	NH1	ARG	56	10.576	9.866	22.832	1.00	0.00
ATOM	844	NH2	ARG	56	10.442	10.396	20.612	1.00	0.00
ATOM	847	H	ARG	56	10.188	3.067	20.119	1.00	0.00



ATOM	848	HA	ARG	56	11.851	3.461	22.506	1.00	0.00
ATOM	849	1HB	ARG	56	9.782	4.718	23.329	1.00	0.00
ATOM	850	2HB	ARG	56	9.160	4.547	21.694	1.00	0.00
ATOM	851	1HG	ARG	56	10.947	5.852	20.794	1.00	0.00
ATOM	852	2HG	ARG	56	11.795	5.859	22.342	1.00	0.00
ATOM	853	1HD	ARG	56	10.474	7.487	23.208	1.00	0.00
ATOM	854	2HD	ARG	56	9.034	6.895	22.386	1.00	0.00
ATOM	855	HE	ARG	56	10.127	7.941	20.321	1.00	0.00
ATOM	856	1HH1	ARG	56	10.568	9.193	23.574	1.00	0.00
ATOM	857	2HH1	ARG	56	10.708	10.844	23.045	1.00	0.00
ATOM	858	1HH2	ARG	56	10.330	10.128	19.639	1.00	0.00
ATOM	859	2HH2	ARG	56	10.565	11.368	20.851	1.00	0.00
ATOM	860	N	PHE	57	9.003	1.776	22.524	1.00	0.00
ATOM	861	CA	PHE	57	8.250	0.714	23.189	1.00	0.00
ATOM	869	C	PHE	57	8.682	-0.660	22.667	1.00	0.00
ATOM	870	O	PHE	57	7.961	-1.304	21.905	1.00	0.00
ATOM	862	CB	PHE	57	6.751	0.929	22.951	1.00	0.00
ATOM	863	CG	PHE	57	5.847	0.226	23.928	1.00	0.00
ATOM	864	CD1	PHE	57	6.262	-0.044	25.223	1.00	0.00
ATOM	865	CD2	PHE	57	4.571	-0.157	23.544	1.00	0.00
ATOM	866	CE1	PHE	57	5.420	-0.683	26.116	1.00	0.00
ATOM	867	CE2	PHE	57	3.727	-0.796	24.431	1.00	0.00
ATOM	868	CZ	PHE	57	4.149	-1.060	25.717	1.00	0.00
ATOM	871	H	PHE	57	8.612	2.193	21.724	1.00	0.00
ATOM	872	HA	PHE	57	8.454	0.769	24.248	1.00	0.00
ATOM	873	1HB	PHE	57	6.503	0.579	21.960	1.00	0.00
ATOM	874	2HB	PHE	57	6.537	1.985	23.012	1.00	0.00
ATOM	875	HD1	PHE	57	7.254	0.248	25.534	1.00	0.00
ATOM	876	HD2	PHE	57	4.237	0.048	22.537	1.00	0.00
ATOM	877	HE1	PHE	57	5.754	-0.889	27.121	1.00	0.00
ATOM	878	HE2	PHE	57	2.735	-1.089	24.117	1.00	0.00
ATOM	879	HZ	PHE	57	3.487	-1.558	26.411	1.00	0.00
ATOM	880	N	ARG	58	9.869	-1.090	23.074	1.00	0.00
ATOM	881	CA	ARG	58	10.418	-2.375	22.638	1.00	0.00
ATOM	889	C	ARG	58	9.722	-3.555	23.316	1.00	0.00
ATOM	890	O	ARG	58	9.807	-4.690	22.842	1.00	0.00
ATOM	882	CB	ARG	58	11.919	-2.434	22.927	1.00	0.00
ATOM	883	CG	ARG	58	12.721	-1.342	22.242	1.00	0.00
ATOM	884	CD	ARG	58	13.355	-0.406	23.255	1.00	0.00
ATOM	885	NE	ARG	58	14.183	0.607	22.611	1.00	0.00
ATOM	886	CZ	ARG	58	15.489	0.744	22.821	1.00	0.00
ATOM	887	NH1	ARG	58	16.115	-0.049	23.683	1.00	0.00
ATOM	888	NH2	ARG	58	16.167	1.681	22.173	1.00	0.00
ATOM	891	H	ARG	58	10.399	-0.520	23.672	1.00	0.00
ATOM	892	HA	ARG	58	10.268	-2.451	21.572	1.00	0.00
ATOM	893	1HB	ARG	58	12.300	-3.390	22.597	1.00	0.00
ATOM	894	2HB	ARG	58	12.071	-2.346	23.992	1.00	0.00
ATOM	895	1HG	ARG	58	12.065	-0.773	21.600	1.00	0.00
ATOM	896	2HG	ARG	58	13.501	-1.797	21.650	1.00	0.00
ATOM	897	1HD	ARG	58	13.969	-0.985	23.930	1.00	0.00
ATOM	898	2HD	ARG	58	12.571	0.085	23.814	1.00	0.00
ATOM	899	HE	ARG	58	13.736	1.218	21.976	1.00	0.00
ATOM	900	1HH1	ARG	58	15.603	-0.760	24.184	1.00	0.00
ATOM	901	2HH1	ARG	58	17.103	0.055	23.843	1.00	0.00
ATOM	902	1HH2	ARG	58	15.699	2.286	21.526	1.00	0.00
ATOM	903	2HH2	ARG	58	17.160	1.788	22.325	1.00	0.00
ATOM	904	N	ARG	59	9.039	-3.290	24.424	1.00	0.00
ATOM	905	CA	ARG	59	8.339	-4.341	25.161	1.00	0.00
ATOM	913	C	ARG	59	7.005	-4.687	24.500	1.00	0.00
ATOM	914	O	ARG	59	5.947	-4.576	25.113	1.00	0.00
ATOM	906	CB	ARG	59	8.114	-3.915	26.614	1.00	0.00
ATOM	907	CG	ARG	59	7.922	-5.087	27.567	1.00	0.00
ATOM	908	CD	ARG	59	6.639	-4.945	28.368	1.00	0.00
ATOM	909	NE	ARG	59	5.842	-6.171	28.365	1.00	0.00
ATOM	910	CZ	ARG	59	5.435	-6.798	29.469	1.00	0.00
ATOM	911	NH1	ARG	59	5.760	-6.321	30.666	1.00	0.00
ATOM	912	NH2	ARG	59	4.693	-7.892	29.368	1.00	0.00
ATOM	915	H	ARG	59	9.006	-2.372	24.756	1.00	0.00
ATOM	916	HA	ARG	59	8.964	-5.221	25.149	1.00	0.00
ATOM	917	1HB	ARG	59	7.234	-3.291	26.663	1.00	0.00
ATOM	918	2HB	ARG	59	8.969	-3.345	26.945	1.00	0.00
ATOM	919	1HG	ARG	59	8.761	-5.126	28.247	1.00	0.00
ATOM	920	2HG	ARG	59	7.877	-6.001	26.994	1.00	0.00



ATOM	921	1HD	ARG	59	6.052	-4.144	27.943	1.00	0.00
ATOM	922	2HD	ARG	59	6.895	-4.699	29.388	1.00	0.00
ATOM	923	HE	ARG	59	5.583	-6.543	27.487	1.00	0.00
ATOM	924	1HH1	ARG	59	6.317	-5.496	30.743	1.00	0.00
ATOM	925	2HH1	ARG	59	5.433	-6.777	31.503	1.00	0.00
ATOM	926	1HH2	ARG	59	4.437	-8.247	28.447	1.00	0.00
ATOM	927	2HH2	ARG	59	4.377	-8.369	30.188	1.00	0.00
ATOM	928	N	THR	60	7.069	-5.099	23.243	1.00	0.00
ATOM	929	CA	THR	60	5.875	-5.455	22.497	1.00	0.00
ATOM	933	C	THR	60	5.941	-6.901	22.011	1.00	0.00
ATOM	934	O	THR	60	4.994	-7.671	22.171	1.00	0.00
ATOM	930	CB	THR	60	5.699	-4.523	21.287	1.00	0.00
ATOM	931	OG1	THR	60	6.968	-3.949	20.938	1.00	0.00
ATOM	932	CG2	THR	60	4.699	-3.417	21.594	1.00	0.00
ATOM	935	H	THR	60	7.945	-5.157	22.803	1.00	0.00
ATOM	936	HA	THR	60	5.021	-5.335	23.148	1.00	0.00
ATOM	937	HB	THR	60	5.332	-5.103	20.452	1.00	0.00
ATOM	938	HG1	THR	60	6.959	-2.999	21.121	1.00	0.00
ATOM	939	1HG2	THR	60	5.202	-2.609	22.102	1.00	0.00
ATOM	940	2HG2	THR	60	3.914	-3.808	22.224	1.00	0.00
ATOM	941	3HG2	THR	60	4.272	-3.052	20.671	1.00	0.00
ATOM	942	N	PHE	61	7.068	-7.252	21.400	1.00	0.00
ATOM	943	CA	PHE	61	7.278	-8.591	20.857	1.00	0.00
ATOM	951	C	PHE	61	7.286	-9.662	21.948	1.00	0.00
ATOM	952	O	PHE	61	6.939	-10.815	21.698	1.00	0.00
ATOM	944	CB	PHE	61	8.589	-8.635	20.071	1.00	0.00
ATOM	945	CG	PHE	61	8.595	-7.741	18.863	1.00	0.00
ATOM	946	CD1	PHE	61	7.883	-8.087	17.725	1.00	0.00
ATOM	947	CD2	PHE	61	9.310	-6.554	18.864	1.00	0.00
ATOM	948	CE1	PHE	61	7.884	-7.269	16.613	1.00	0.00
ATOM	949	CE2	PHE	61	9.315	-5.731	17.754	1.00	0.00
ATOM	950	CZ	PHE	61	8.601	-6.088	16.627	1.00	0.00
ATOM	953	H	PHE	61	7.775	-6.582	21.293	1.00	0.00
ATOM	954	HA	PHE	61	6.464	-8.800	20.179	1.00	0.00
ATOM	955	1HB	PHE	61	8.765	-9.647	19.735	1.00	0.00
ATOM	956	2HB	PHE	61	9.398	-8.328	20.715	1.00	0.00
ATOM	957	HD1	PHE	61	9.869	-6.274	19.745	1.00	0.00
ATOM	958	HD2	PHE	61	7.321	-9.011	17.712	1.00	0.00
ATOM	959	HE1	PHE	61	9.876	-4.808	17.768	1.00	0.00
ATOM	960	HE2	PHE	61	7.324	-7.552	15.733	1.00	0.00
ATOM	961	HZ	PHE	61	8.602	-5.446	15.759	1.00	0.00
ATOM	962	N	SER	62	7.683	-9.282	23.152	1.00	0.00
ATOM	963	CA	SER	62	7.740	-10.213	24.271	1.00	0.00
ATOM	966	C	SER	62	6.355	-10.769	24.613	1.00	0.00
ATOM	967	O	SER	62	6.223	-11.928	25.013	1.00	0.00
ATOM	964	CB	SER	62	8.348	-9.498	25.478	1.00	0.00
ATOM	965	OG	SER	62	8.787	-8.194	25.115	1.00	0.00
ATOM	968	H	SER	62	7.952	-8.351	23.297	1.00	0.00
ATOM	969	HA	SER	62	8.379	-11.036	23.988	1.00	0.00
ATOM	970	1HB	SER	62	9.194	-10.063	25.841	1.00	0.00
ATOM	971	2HB	SER	62	7.605	-9.414	26.258	1.00	0.00
ATOM	972	HG	SER	62	9.747	-8.140	25.206	1.00	0.00
ATOM	973	N	ASP	63	5.331	-9.943	24.447	1.00	0.00
ATOM	974	CA	ASP	63	3.960	-10.353	24.740	1.00	0.00
ATOM	979	C	ASP	63	3.433	-11.284	23.664	1.00	0.00
ATOM	980	O	ASP	63	2.472	-12.024	23.881	1.00	0.00
ATOM	975	CB	ASP	63	3.059	-9.123	24.878	1.00	0.00
ATOM	976	CG	ASP	63	3.094	-8.532	26.275	1.00	0.00
ATOM	977	OD1	ASP	63	4.192	-8.465	26.870	1.00	0.00
ATOM	978	OD2	ASP	63	2.025	-8.140	26.788	1.00	0.00
ATOM	981	H	ASP	63	5.498	-9.033	24.122	1.00	0.00
ATOM	982	HA	ASP	63	3.969	-10.896	25.673	1.00	0.00
ATOM	983	1HB	ASP	63	2.042	-9.404	24.648	1.00	0.00
ATOM	984	2HB	ASP	63	3.385	-8.366	24.179	1.00	0.00
ATOM	985	N	LEU	64	4.085	-11.268	22.514	1.00	0.00
ATOM	986	CA	LEU	64	3.702	-12.136	21.412	1.00	0.00
ATOM	991	C	LEU	64	4.116	-13.558	21.748	1.00	0.00
ATOM	992	O	LEU	64	3.395	-14.519	21.477	1.00	0.00
ATOM	987	CB	LEU	64	4.386	-11.699	20.113	1.00	0.00
ATOM	988	CG	LEU	64	3.739	-10.538	19.350	1.00	0.00
ATOM	989	CD1	LEU	64	2.800	-9.724	20.233	1.00	0.00
ATOM	990	CD2	LEU	64	4.822	-9.648	18.769	1.00	0.00
ATOM	993	H	LEU	64	4.856	-10.672	22.411	1.00	0.00



ATOM	994	HA	LEU	64	2.629	-12.089	21.293	1.00	0.00
ATOM	995	1HB	LEU	64	4.422	-12.552	19.453	1.00	0.00
ATOM	996	2HB	LEU	64	5.399	-11.414	20.353	1.00	0.00
ATOM	997	HG	LEU	64	3.161	-10.934	18.528	1.00	0.00
ATOM	998	1HD1	LEU	64	3.114	-9.809	21.263	1.00	0.00
ATOM	999	2HD1	LEU	64	1.793	-10.103	20.131	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.828	-8.689	19.931	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.603	-10.262	18.346	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.236	-9.027	19.550	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.400	-9.022	17.997	1.00	0.00
ATOM	1004	N	ALA	65	5.286	-13.673	22.361	1.00	0.00
ATOM	1005	CA	ALA	65	5.822	-14.962	22.762	1.00	0.00
ATOM	1007	C	ALA	65	5.093	-15.474	23.990	1.00	0.00
ATOM	1008	O	ALA	65	4.661	-16.625	24.028	1.00	0.00
ATOM	1006	CB	ALA	65	7.316	-14.858	23.033	1.00	0.00
ATOM	1009	H	ALA	65	5.800	-12.859	22.560	1.00	0.00
ATOM	1010	HA	ALA	65	5.669	-15.655	21.948	1.00	0.00
ATOM	1011	1HB	ALA	65	7.856	-14.914	22.099	1.00	0.00
ATOM	1012	2HB	ALA	65	7.623	-15.670	23.673	1.00	0.00
ATOM	1013	3HB	ALA	65	7.530	-13.917	23.518	1.00	0.00
ATOM	1014	N	ALA	66	4.951	-14.602	24.985	1.00	0.00
ATOM	1015	CA	ALA	66	4.260	-14.947	26.224	1.00	0.00
ATOM	1017	C	ALA	66	2.890	-15.551	25.933	1.00	0.00
ATOM	1018	O	ALA	66	2.495	-16.549	26.536	1.00	0.00
ATOM	1016	CB	ALA	66	4.123	-13.716	27.100	1.00	0.00
ATOM	1019	H	ALA	66	5.319	-13.693	24.879	1.00	0.00
ATOM	1020	HA	ALA	66	4.857	-15.672	26.756	1.00	0.00
ATOM	1021	1HB	ALA	66	4.856	-12.980	26.805	1.00	0.00
ATOM	1022	2HB	ALA	66	4.283	-13.991	28.133	1.00	0.00
ATOM	1023	3HB	ALA	66	3.132	-13.303	26.987	1.00	0.00
ATOM	1024	N	GLN	67	2.178	-14.940	24.998	1.00	0.00
ATOM	1025	CA	GLN	67	0.851	-15.414	24.618	1.00	0.00
ATOM	1031	C	GLN	67	0.892	-16.747	23.874	1.00	0.00
ATOM	1032	O	GLN	67	0.240	-17.713	24.278	1.00	0.00
ATOM	1026	CB	GLN	67	0.156	-14.396	23.723	1.00	0.00
ATOM	1027	CG	GLN	67	-0.596	-13.321	24.475	1.00	0.00
ATOM	1028	CD	GLN	67	-1.175	-12.289	23.536	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.375	-12.284	23.269	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.324	-11.417	23.027	1.00	0.00
ATOM	1033	H	GLN	67	2.554	-14.146	24.552	1.00	0.00
ATOM	1034	HA	GLN	67	0.273	-15.536	25.519	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.545	-14.916	23.087	1.00	0.00
ATOM	1036	2HB	GLN	67	0.899	-13.915	23.104	1.00	0.00
ATOM	1037	1HG	GLN	67	0.083	-12.830	25.157	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.400	-13.779	25.031	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.623	-11.488	23.284	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.671	-10.735	22.417	1.00	0.00
ATOM	1041	N	LEU	68	1.610	-16.775	22.758	1.00	0.00
ATOM	1042	CA	LEU	68	1.677	-17.966	21.914	1.00	0.00
ATOM	1047	C	LEU	68	2.686	-19.003	22.404	1.00	0.00
ATOM	1048	O	LEU	68	3.060	-19.904	21.656	1.00	0.00
ATOM	1043	CB	LEU	68	2.000	-17.563	20.471	1.00	0.00
ATOM	1044	CG	LEU	68	0.817	-17.016	19.657	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.498	-17.615	20.133	1.00	0.00
ATOM	1046	CD2	LEU	68	0.766	-15.498	19.736	1.00	0.00
ATOM	1049	H	LEU	68	2.074	-15.958	22.467	1.00	0.00
ATOM	1050	HA	LEU	68	0.699	-18.420	21.926	1.00	0.00
ATOM	1051	1HB	LEU	68	2.387	-18.430	19.957	1.00	0.00
ATOM	1052	2HB	LEU	68	2.770	-16.807	20.495	1.00	0.00
ATOM	1053	HG	LEU	68	0.948	-17.291	18.620	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.322	-17.080	19.683	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.561	-17.537	21.208	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.544	-18.656	19.845	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.487	-15.096	18.773	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.737	-15.118	20.018	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.036	-15.200	20.475	1.00	0.00
ATOM	1060	N	HIS	69	3.120	-18.896	23.651	1.00	0.00
ATOM	1061	CA	HIS	69	4.073	-19.856	24.195	1.00	0.00
ATOM	1068	C	HIS	69	3.359	-21.147	24.572	1.00	0.00
ATOM	1069	O	HIS	69	3.921	-22.234	24.465	1.00	0.00
ATOM	1062	CB	HIS	69	4.782	-19.285	25.427	1.00	0.00
ATOM	1063	CG	HIS	69	6.122	-19.899	25.711	1.00	0.00
ATOM	1064	ND1	HIS	69	6.477	-21.179	25.325	1.00	0.00



ATOM	1065	CD2	HIS	69	7.200	-19.397	26.360	1.00	0.00
ATOM	1066	CE1	HIS	69	7.708	-21.432	25.728	1.00	0.00
ATOM	1067	NE2	HIS	69	8.167	-20.368	26.356	1.00	0.00
ATOM	1070	H	HIS	69	2.798	-18.159	24.213	1.00	0.00
ATOM	1071	HA	HIS	69	4.802	-20.070	23.432	1.00	0.00
ATOM	1072	1HB	HIS	69	4.156	-19.441	26.295	1.00	0.00
ATOM	1073	2HB	HIS	69	4.930	-18.225	25.287	1.00	0.00
ATOM	1074	HD1	HIS	69	5.910	-21.814	24.822	1.00	0.00
ATOM	1075	HD2	HIS	69	7.280	-18.413	26.802	1.00	0.00
ATOM	1076	HE1	HIS	69	8.248	-22.354	25.571	1.00	0.00
ATOM	1077	HE2	HIS	69	9.057	-20.297	26.782	1.00	0.00
ATOM	1078	N	VAL	70	2.122	-21.017	25.020	1.00	0.00
ATOM	1079	CA	VAL	70	1.333	-22.172	25.416	1.00	0.00
ATOM	1083	C	VAL	70	0.489	-22.702	24.244	1.00	0.00
ATOM	1084	O	VAL	70	0.747	-23.796	23.738	1.00	0.00
ATOM	1080	CB	VAL	70	0.449	-21.856	26.653	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.288	-20.531	26.496	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.523	-22.991	26.935	1.00	0.00
ATOM	1085	H	VAL	70	1.731	-20.122	25.083	1.00	0.00
ATOM	1086	HA	VAL	70	2.030	-22.948	25.701	1.00	0.00
ATOM	1087	HB	VAL	70	1.104	-21.764	27.508	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.911	-20.361	27.361	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.904	-20.565	25.609	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.429	-19.729	26.406	1.00	0.00
ATOM	1091	1HG2	VAL	70	0.004	-23.934	26.897	1.00	0.00
ATOM	1092	2HG2	VAL	70	-1.307	-22.986	26.192	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.956	-22.860	27.916	1.00	0.00
ATOM	1094	N	THR	71	-0.504	-21.924	23.814	1.00	0.00
ATOM	1095	CA	THR	71	-1.378	-22.308	22.708	1.00	0.00
ATOM	1099	C	THR	71	-2.128	-21.085	22.182	1.00	0.00
ATOM	1100	O	THR	71	-2.326	-20.114	22.918	1.00	0.00
ATOM	1096	CB	THR	71	-2.416	-23.371	23.139	1.00	0.00
ATOM	1097	OG1	THR	71	-2.506	-23.428	24.567	1.00	0.00
ATOM	1098	CG2	THR	71	-2.052	-24.745	22.594	1.00	0.00
ATOM	1101	H	THR	71	-0.656	-21.063	24.252	1.00	0.00
ATOM	1102	HA	THR	71	-0.767	-22.720	21.918	1.00	0.00
ATOM	1103	HB	THR	71	-3.380	-23.089	22.740	1.00	0.00
ATOM	1104	HG1	THR	71	-2.984	-22.660	24.888	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.520	-25.508	23.201	1.00	0.00
ATOM	1106	2HG2	THR	71	-0.980	-24.871	22.620	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.402	-24.833	21.576	1.00	0.00
ATOM	1108	N	PRO	72	-2.555	-21.110	20.910	1.00	0.00
ATOM	1109	CA	PRO	72	-3.288	-20.008	20.298	1.00	0.00
ATOM	1113	C	PRO	72	-4.801	-20.144	20.492	1.00	0.00
ATOM	1114	O	PRO	72	-5.260	-20.775	21.445	1.00	0.00
ATOM	1110	CB	PRO	72	-2.919	-20.156	18.826	1.00	0.00
ATOM	1111	CG	PRO	72	-2.748	-21.626	18.622	1.00	0.00
ATOM	1112	CD	PRO	72	-2.357	-22.218	19.958	1.00	0.00
ATOM	1115	HA	PRO	72	-2.955	-19.050	20.666	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.004	-19.622	18.625	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.716	-19.761	18.212	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.969	-21.805	17.895	1.00	0.00
ATOM	1119	2HG	PRO	72	-3.678	-22.057	18.283	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.323	-22.530	19.942	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.998	-23.052	20.202	1.00	0.00
ATOM	1122	N	GLY	73	-5.571	-19.562	19.576	1.00	0.00
ATOM	1123	CA	GLY	73	-7.019	-19.648	19.656	1.00	0.00
ATOM	1124	C	GLY	73	-7.630	-18.648	20.620	1.00	0.00
ATOM	1125	O	GLY	73	-8.166	-17.618	20.201	1.00	0.00
ATOM	1126	H	GLY	73	-5.152	-19.083	18.829	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.289	-20.645	19.973	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.431	-19.475	18.673	1.00	0.00
ATOM	1129	N	SER	74	-7.562	-18.954	21.909	1.00	0.00
ATOM	1130	CA	SER	74	-8.125	-18.099	22.953	1.00	0.00
ATOM	1133	C	SER	74	-7.271	-16.856	23.205	1.00	0.00
ATOM	1134	O	SER	74	-6.991	-16.492	24.347	1.00	0.00
ATOM	1131	CB	SER	74	-8.284	-18.915	24.235	1.00	0.00
ATOM	1132	OG	SER	74	-8.374	-20.300	23.934	1.00	0.00
ATOM	1135	H	SER	74	-7.129	-19.798	22.172	1.00	0.00
ATOM	1136	HA	SER	74	-9.103	-17.777	22.626	1.00	0.00
ATOM	1137	1HB	SER	74	-9.186	-18.610	24.746	1.00	0.00
ATOM	1138	2HB	SER	74	-7.429	-18.751	24.875	1.00	0.00
ATOM	1139	HG	SER	74	-8.781	-20.765	24.684	1.00	0.00



ATOM	1140	N	ALA	75	-6.883	-16.192	22.131	1.00	0.00
ATOM	1141	CA	ALA	75	-6.088	-14.985	22.229	1.00	0.00
ATOM	1143	C	ALA	75	-6.989	-13.760	22.235	1.00	0.00
ATOM	1144	O	ALA	75	-6.572	-12.673	22.631	1.00	0.00
ATOM	1142	CB	ALA	75	-5.094	-14.912	21.082	1.00	0.00
ATOM	1145	H	ALA	75	-7.151	-16.521	21.243	1.00	0.00
ATOM	1146	HA	ALA	75	-5.537	-15.020	23.152	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.289	-15.610	21.257	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.694	-13.910	21.017	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.594	-15.160	20.157	1.00	0.00
ATOM	1150	N	GLN	76	-8.229	-13.947	21.783	1.00	0.00
ATOM	1151	CA	GLN	76	-9.194	-12.853	21.716	1.00	0.00
ATOM	1157	C	GLN	76	-9.487	-12.284	23.087	1.00	0.00
ATOM	1158	O	GLN	76	-9.634	-11.077	23.234	1.00	0.00
ATOM	1152	CB	GLN	76	-10.497	-13.290	21.031	1.00	0.00
ATOM	1153	CG	GLN	76	-11.006	-14.652	21.458	1.00	0.00
ATOM	1154	CD	GLN	76	-12.260	-15.072	20.712	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.447	-16.249	20.408	1.00	0.00
ATOM	1156	NE2	GLN	76	-13.128	-14.116	20.416	1.00	0.00
ATOM	1159	H	GLN	76	-8.494	-14.837	21.476	1.00	0.00
ATOM	1160	HA	GLN	76	-8.746	-12.072	21.121	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.335	-13.310	19.964	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.264	-12.563	21.254	1.00	0.00
ATOM	1163	1HG	GLN	76	-11.224	-14.621	22.507	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.235	-15.384	21.272	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.921	-13.189	20.689	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.949	-14.367	19.930	1.00	0.00
ATOM	1167	N	GLN	77	-9.564	-13.148	24.089	1.00	0.00
ATOM	1168	CA	GLN	77	-9.841	-12.692	25.445	1.00	0.00
ATOM	1174	C	GLN	77	-8.684	-11.856	25.974	1.00	0.00
ATOM	1175	O	GLN	77	-8.897	-10.836	26.616	1.00	0.00
ATOM	1169	CB	GLN	77	-10.114	-13.871	26.389	1.00	0.00
ATOM	1170	CG	GLN	77	-10.276	-15.211	25.685	1.00	0.00
ATOM	1171	CD	GLN	77	-11.683	-15.767	25.801	1.00	0.00
ATOM	1172	OE1	GLN	77	-12.658	-15.017	25.830	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.797	-17.085	25.870	1.00	0.00
ATOM	1176	H	GLN	77	-9.432	-14.105	23.914	1.00	0.00
ATOM	1177	HA	GLN	77	-10.715	-12.060	25.400	1.00	0.00
ATOM	1178	1HB	GLN	77	-11.020	-13.669	26.941	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.293	-13.954	27.085	1.00	0.00
ATOM	1180	1HG	GLN	77	-9.587	-15.919	26.123	1.00	0.00
ATOM	1181	2HG	GLN	77	-10.042	-15.082	24.639	1.00	0.00
ATOM	1182	1HE2	GLN	77	-10.981	-17.624	25.847	1.00	0.00
ATOM	1183	2HE2	GLN	77	-12.703	-17.471	25.935	1.00	0.00
ATOM	1184	N	ARG	78	-7.463	-12.278	25.684	1.00	0.00
ATOM	1185	CA	ARG	78	-6.287	-11.542	26.129	1.00	0.00
ATOM	1193	C	ARG	78	-6.214	-10.196	25.417	1.00	0.00
ATOM	1194	O	ARG	78	-5.979	-9.158	26.043	1.00	0.00
ATOM	1186	CB	ARG	78	-5.011	-12.346	25.860	1.00	0.00
ATOM	1187	CG	ARG	78	-4.889	-13.612	26.692	1.00	0.00
ATOM	1188	CD	ARG	78	-4.039	-14.655	25.982	1.00	0.00
ATOM	1189	NE	ARG	78	-3.205	-15.418	26.913	1.00	0.00
ATOM	1190	CZ	ARG	78	-2.336	-16.355	26.533	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.205	-16.660	25.246	1.00	0.00
ATOM	1192	NH2	ARG	78	-1.602	-16.994	27.440	1.00	0.00
ATOM	1195	H	ARG	78	-7.350	-13.090	25.152	1.00	0.00
ATOM	1196	HA	ARG	78	-6.384	-11.369	27.190	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.156	-11.719	26.073	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.989	-12.624	24.817	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.876	-14.018	26.860	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.430	-13.369	27.637	1.00	0.00
ATOM	1201	1HD	ARG	78	-3.398	-14.153	25.271	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.690	-15.336	25.456	1.00	0.00
ATOM	1203	HE	ARG	78	-3.300	-15.214	27.870	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.761	-16.190	24.560	1.00	0.00
ATOM	1205	2HH1	ARG	78	-1.544	-17.361	24.954	1.00	0.00
ATOM	1206	1HH2	ARG	78	-1.701	-16.779	28.419	1.00	0.00
ATOM	1207	2HH2	ARG	78	-0.944	-17.691	27.154	1.00	0.00
ATOM	1208	N	PHE	79	-6.427	-10.225	24.105	1.00	0.00
ATOM	1209	CA	PHE	79	-6.394	-9.020	23.294	1.00	0.00
ATOM	1217	C	PHE	79	-7.447	-8.023	23.761	1.00	0.00
ATOM	1218	O	PHE	79	-7.144	-6.846	23.968	1.00	0.00
ATOM	1210	CB	PHE	79	-6.611	-9.363	21.819	1.00	0.00



ATOM	1211	CG	PHE	79	-6.031	-8.347	20.873	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.661	-8.140	20.808	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.858	-7.598	20.052	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.129	-7.206	19.939	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.332	-6.662	19.182	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.965	-6.465	19.126	1.00	0.00
ATOM	1219	H	PHE	79	-6.613	-11.086	23.671	1.00	0.00
ATOM	1220	HA	PHE	79	-5.418	-8.573	23.409	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.671	-9.432	21.625	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.149	-10.316	21.606	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.926	-7.750	20.095	1.00	0.00
ATOM	1224	HD2	PHE	79	-4.007	-8.718	21.443	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.987	-6.086	18.547	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.061	-7.054	19.897	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.552	-5.735	18.446	1.00	0.00
ATOM	1228	N	THR	80	-8.683	-8.492	23.921	1.00	0.00
ATOM	1229	CA	THR	80	-9.769	-7.620	24.361	1.00	0.00
ATOM	1233	C	THR	80	-9.462	-6.958	25.707	1.00	0.00
ATOM	1234	O	THR	80	-9.844	-5.811	25.927	1.00	0.00
ATOM	1230	CB	THR	80	-11.116	-8.364	24.462	1.00	0.00
ATOM	1231	OG1	THR	80	-10.918	-9.685	24.967	1.00	0.00
ATOM	1232	CG2	THR	80	-11.796	-8.430	23.102	1.00	0.00
ATOM	1235	H	THR	80	-8.869	-9.445	23.730	1.00	0.00
ATOM	1236	HA	THR	80	-9.878	-6.842	23.618	1.00	0.00
ATOM	1237	HB	THR	80	-11.757	-7.824	25.140	1.00	0.00
ATOM	1238	HG1	THR	80	-10.620	-10.261	24.252	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.866	-8.345	23.230	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.564	-9.373	22.628	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.442	-7.619	22.483	1.00	0.00
ATOM	1242	N	GLN	81	-8.763	-7.667	26.598	1.00	0.00
ATOM	1243	CA	GLN	81	-8.415	-7.111	27.908	1.00	0.00
ATOM	1249	C	GLN	81	-7.562	-5.866	27.747	1.00	0.00
ATOM	1250	O	GLN	81	-7.921	-4.789	28.214	1.00	0.00
ATOM	1244	CB	GLN	81	-7.663	-8.131	28.766	1.00	0.00
ATOM	1245	CG	GLN	81	-8.480	-9.359	29.092	1.00	0.00
ATOM	1246	CD	GLN	81	-8.848	-9.462	30.559	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.323	-10.311	31.283	1.00	0.00
ATOM	1248	NE2	GLN	81	-9.754	-8.607	31.009	1.00	0.00
ATOM	1251	H	GLN	81	-8.471	-8.580	26.368	1.00	0.00
ATOM	1252	HA	GLN	81	-9.332	-6.839	28.405	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.372	-7.661	29.694	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.774	-8.444	28.238	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.912	-10.237	28.815	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.385	-9.323	28.509	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.136	-7.960	30.380	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.013	-8.660	31.960	1.00	0.00
ATOM	1259	N	VAL	82	-6.437	-6.033	27.073	1.00	0.00
ATOM	1260	CA	VAL	82	-5.512	-4.927	26.829	1.00	0.00
ATOM	1264	C	VAL	82	-6.202	-3.799	26.070	1.00	0.00
ATOM	1265	O	VAL	82	-5.964	-2.623	26.336	1.00	0.00
ATOM	1261	CB	VAL	82	-4.288	-5.394	26.012	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.263	-4.281	25.890	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.675	-6.637	26.633	1.00	0.00
ATOM	1266	H	VAL	82	-6.224	-6.929	26.725	1.00	0.00
ATOM	1267	HA	VAL	82	-5.165	-4.551	27.792	1.00	0.00
ATOM	1268	HB	VAL	82	-4.620	-5.645	25.016	1.00	0.00
ATOM	1269	1HG1	VAL	82	-2.626	-4.281	26.762	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.770	-3.330	25.814	1.00	0.00
ATOM	1271	3HG1	VAL	82	-2.662	-4.440	25.006	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.526	-7.386	25.869	1.00	0.00
ATOM	1273	2HG2	VAL	82	-4.338	-7.025	27.392	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.724	-6.385	27.079	1.00	0.00
ATOM	1275	N	SER	83	-7.059	-4.167	25.126	1.00	0.00
ATOM	1276	CA	SER	83	-7.782	-3.187	24.328	1.00	0.00
ATOM	1279	C	SER	83	-8.750	-2.385	25.193	1.00	0.00
ATOM	1280	O	SER	83	-8.810	-1.158	25.096	1.00	0.00
ATOM	1277	CB	SER	83	-8.538	-3.881	23.193	1.00	0.00
ATOM	1278	OG	SER	83	-7.673	-4.714	22.439	1.00	0.00
ATOM	1281	H	SER	83	-7.211	-5.124	24.966	1.00	0.00
ATOM	1282	HA	SER	83	-7.057	-2.510	23.902	1.00	0.00
ATOM	1283	1HB	SER	83	-8.962	-3.135	22.537	1.00	0.00
ATOM	1284	2HB	SER	83	-9.329	-4.487	23.608	1.00	0.00
ATOM	1285	HG	SER	83	-7.365	-5.444	22.991	1.00	0.00



ATOM	1286	N	ASP	84	-9.500	-3.080	26.038	1.00	0.00
ATOM	1287	CA	ASP	84	-10.465	-2.429	26.917	1.00	0.00
ATOM	1292	C	ASP	84	-9.756	-1.578	27.962	1.00	0.00
ATOM	1293	O	ASP	84	-10.225	-0.496	28.313	1.00	0.00
ATOM	1288	CB	ASP	84	-11.370	-3.461	27.594	1.00	0.00
ATOM	1289	CG	ASP	84	-12.843	-3.109	27.470	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.342	-2.988	26.327	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.511	-2.945	28.512	1.00	0.00
ATOM	1294	H	ASP	84	-9.406	-4.059	26.074	1.00	0.00
ATOM	1295	HA	ASP	84	-11.076	-1.781	26.305	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.120	-3.518	28.644	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.211	-4.427	27.137	1.00	0.00
ATOM	1298	N	GLU	85	-8.614	-2.059	28.444	1.00	0.00
ATOM	1299	CA	GLU	85	-7.842	-1.325	29.438	1.00	0.00
ATOM	1305	C	GLU	85	-7.157	-0.120	28.802	1.00	0.00
ATOM	1306	O	GLU	85	-6.839	0.855	29.478	1.00	0.00
ATOM	1300	CB	GLU	85	-6.804	-2.238	30.088	1.00	0.00
ATOM	1301	CG	GLU	85	-7.408	-3.241	31.058	1.00	0.00
ATOM	1302	CD	GLU	85	-6.416	-3.720	32.095	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.260	-3.999	31.732	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.793	-3.818	33.284	1.00	0.00
ATOM	1307	H	GLU	85	-8.278	-2.928	28.120	1.00	0.00
ATOM	1308	HA	GLU	85	-8.526	-0.977	30.197	1.00	0.00
ATOM	1309	1HB	GLU	85	-6.093	-1.628	30.628	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.285	-2.782	29.314	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.760	-4.095	30.500	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.240	-2.776	31.566	1.00	0.00
ATOM	1313	N	LEU	86	-6.947	-0.190	27.494	1.00	0.00
ATOM	1314	CA	LEU	86	-6.316	0.896	26.759	1.00	0.00
ATOM	1319	C	LEU	86	-7.348	1.970	26.437	1.00	0.00
ATOM	1320	O	LEU	86	-7.066	3.167	26.484	1.00	0.00
ATOM	1315	CB	LEU	86	-5.680	0.369	25.469	1.00	0.00
ATOM	1316	CG	LEU	86	-4.185	0.666	25.301	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.429	0.367	26.584	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.605	-0.140	24.149	1.00	0.00
ATOM	1321	H	LEU	86	-7.232	-0.993	27.008	1.00	0.00
ATOM	1322	HA	LEU	86	-5.547	1.323	27.387	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.206	0.803	24.631	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.817	-0.703	25.440	1.00	0.00
ATOM	1325	HG	LEU	86	-4.058	1.714	25.075	1.00	0.00
ATOM	1326	1HD1	LEU	86	-4.111	-0.024	27.324	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.978	1.276	26.956	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.657	-0.361	26.385	1.00	0.00
ATOM	1329	1HD2	LEU	86	-2.569	-0.374	24.360	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.663	0.440	23.238	1.00	0.00
ATOM	1331	3HD2	LEU	86	-4.164	-1.055	24.030	1.00	0.00
ATOM	1332	N	PHE	87	-8.556	1.524	26.122	1.00	0.00
ATOM	1333	CA	PHE	87	-9.649	2.427	25.799	1.00	0.00
ATOM	1341	C	PHE	87	-10.334	2.919	27.074	1.00	0.00
ATOM	1342	O	PHE	87	-11.190	3.800	27.025	1.00	0.00
ATOM	1334	CB	PHE	87	-10.661	1.717	24.892	1.00	0.00
ATOM	1335	CG	PHE	87	-11.669	2.637	24.263	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.305	3.479	23.225	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.980	2.664	24.712	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.228	4.329	22.648	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.906	3.512	24.140	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.530	4.347	23.107	1.00	0.00
ATOM	1343	H	PHE	87	-8.719	0.554	26.109	1.00	0.00
ATOM	1344	HA	PHE	87	-9.237	3.275	25.273	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.200	0.983	25.474	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.130	1.217	24.097	1.00	0.00
ATOM	1347	HD1	PHE	87	-13.275	2.012	25.522	1.00	0.00
ATOM	1348	HD2	PHE	87	-10.287	3.466	22.865	1.00	0.00
ATOM	1349	HE1	PHE	87	-14.925	3.523	24.500	1.00	0.00
ATOM	1350	HE2	PHE	87	-11.931	4.981	21.840	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.253	5.012	22.658	1.00	0.00
ATOM	1352	N	GLN	88	-9.950	2.329	28.209	1.00	0.00
ATOM	1353	CA	GLN	88	-10.518	2.675	29.514	1.00	0.00
ATOM	1359	C	GLN	88	-10.596	4.184	29.724	1.00	0.00
ATOM	1360	O	GLN	88	-11.595	4.693	30.231	1.00	0.00
ATOM	1354	CB	GLN	88	-9.706	2.035	30.640	1.00	0.00
ATOM	1355	CG	GLN	88	-10.566	1.408	31.727	1.00	0.00
ATOM	1356	CD	GLN	88	-10.506	2.176	33.034	1.00	0.00



ATOM	1357	OE1	GLN	88	-9.638	1.931	33.870	1.00	0.00
ATOM	1358	NE2	GLN	88	-11.428	3.110	33.220	1.00	0.00
ATOM	1361	H	GLN	88	-9.268	1.625	28.165	1.00	0.00
ATOM	1362	HA	GLN	88	-11.521	2.276	29.545	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.083	2.791	31.095	1.00	0.00
ATOM	1364	2HB	GLN	88	-9.074	1.265	30.221	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.221	0.399	31.903	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.590	1.384	31.388	1.00	0.00
ATOM	1367	1HE2	GLN	88	-12.096	3.256	32.511	1.00	0.00
ATOM	1368	2HE2	GLN	88	-11.407	3.618	34.057	1.00	0.00
ATOM	1369	N	GLY	89	-9.556	4.901	29.330	1.00	0.00
ATOM	1370	CA	GLY	89	-9.572	6.336	29.494	1.00	0.00
ATOM	1371	C	GLY	89	-8.366	7.015	28.892	1.00	0.00
ATOM	1372	O	GLY	89	-7.741	7.855	29.537	1.00	0.00
ATOM	1373	H	GLY	89	-8.782	4.455	28.925	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.611	6.564	30.549	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.461	6.727	29.022	1.00	0.00
ATOM	1376	N	GLY	90	-8.037	6.672	27.654	1.00	0.00
ATOM	1377	CA	GLY	90	-6.899	7.305	27.018	1.00	0.00
ATOM	1378	C	GLY	90	-6.532	6.735	25.657	1.00	0.00
ATOM	1379	O	GLY	90	-5.370	6.393	25.435	1.00	0.00
ATOM	1380	H	GLY	90	-8.570	6.008	27.170	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.047	7.208	27.673	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.118	8.355	26.898	1.00	0.00
ATOM	1383	N	PRO	91	-7.473	6.656	24.693	1.00	0.00
ATOM	1384	CA	PRO	91	-7.171	6.161	23.350	1.00	0.00
ATOM	1388	C	PRO	91	-6.512	7.239	22.493	1.00	0.00
ATOM	1389	O	PRO	91	-6.836	7.402	21.320	1.00	0.00
ATOM	1385	CB	PRO	91	-8.533	5.803	22.764	1.00	0.00
ATOM	1386	CG	PRO	91	-9.566	6.445	23.626	1.00	0.00
ATOM	1387	CD	PRO	91	-8.877	7.073	24.816	1.00	0.00
ATOM	1390	HA	PRO	91	-6.540	5.284	23.379	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.645	4.731	22.747	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.595	6.193	21.758	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.283	5.704	23.948	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.069	7.203	23.052	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.307	6.703	25.734	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.956	8.149	24.771	1.00	0.00
ATOM	1397	N	ASN	92	-5.603	7.979	23.103	1.00	0.00
ATOM	1398	CA	ASN	92	-4.904	9.063	22.430	1.00	0.00
ATOM	1403	C	ASN	92	-3.946	8.540	21.372	1.00	0.00
ATOM	1404	O	ASN	92	-3.616	7.356	21.358	1.00	0.00
ATOM	1399	CB	ASN	92	-4.156	9.916	23.451	1.00	0.00
ATOM	1400	CG	ASN	92	-4.632	11.354	23.455	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.499	12.062	22.462	1.00	0.00
ATOM	1402	ND2	ASN	92	-5.183	11.799	24.575	1.00	0.00
ATOM	1405	H	ASN	92	-5.402	7.794	24.043	1.00	0.00
ATOM	1406	HA	ASN	92	-5.647	9.677	21.945	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.102	9.905	23.216	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.307	9.503	24.437	1.00	0.00
ATOM	1409	1HD2	ASN	92	-5.254	11.185	25.335	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.502	12.726	24.596	1.00	0.00
ATOM	1411	N	TRP	93	-3.510	9.433	20.482	1.00	0.00
ATOM	1412	CA	TRP	93	-2.593	9.073	19.398	1.00	0.00
ATOM	1423	C	TRP	93	-1.336	8.388	19.929	1.00	0.00
ATOM	1424	O	TRP	93	-0.750	7.552	19.244	1.00	0.00
ATOM	1413	CB	TRP	93	-2.213	10.308	18.575	1.00	0.00
ATOM	1414	CG	TRP	93	-3.349	11.271	18.360	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.473	12.518	18.904	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.517	11.073	17.545	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.639	13.104	18.479	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.295	12.243	17.647	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.984	10.028	16.737	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.506	12.397	16.978	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.191	10.189	16.071	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.936	11.365	16.198	1.00	0.00
ATOM	1425	H	TRP	93	-3.822	10.361	20.551	1.00	0.00
ATOM	1426	HA	TRP	93	-3.111	8.377	18.753	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.857	9.985	17.604	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.422	10.839	19.084	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.752	12.965	19.571	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.956	14.009	18.726	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.423	9.112	16.625	1.00	0.00



ATOM	1432	HZ2	TRP	93	-7.094	13.299	17.063	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.570	9.400	15.439	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.870	11.443	15.660	1.00	0.00
ATOM	1435	N	GLY	94	-0.940	8.720	21.158	1.00	0.00
ATOM	1436	CA	GLY	94	0.226	8.097	21.749	1.00	0.00
ATOM	1437	C	GLY	94	0.014	6.605	21.923	1.00	0.00
ATOM	1438	O	GLY	94	0.922	5.802	21.719	1.00	0.00
ATOM	1439	H	GLY	94	-1.454	9.378	21.675	1.00	0.00
ATOM	1440	1HA	GLY	94	0.410	8.540	22.717	1.00	0.00
ATOM	1441	2HA	GLY	94	1.081	8.269	21.111	1.00	0.00
ATOM	1442	N	ARG	95	-1.209	6.240	22.285	1.00	0.00
ATOM	1443	CA	ARG	95	-1.571	4.846	22.466	1.00	0.00
ATOM	1451	C	ARG	95	-2.033	4.235	21.151	1.00	0.00
ATOM	1452	O	ARG	95	-1.950	3.023	20.963	1.00	0.00
ATOM	1444	CB	ARG	95	-2.663	4.706	23.528	1.00	0.00
ATOM	1445	CG	ARG	95	-2.397	3.594	24.526	1.00	0.00
ATOM	1446	CD	ARG	95	-1.174	3.893	25.381	1.00	0.00
ATOM	1447	NE	ARG	95	-0.995	2.907	26.449	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.072	1.943	26.434	1.00	0.00
ATOM	1449	NH1	ARG	95	0.768	1.841	25.407	1.00	0.00
ATOM	1450	NH2	ARG	95	0.012	1.083	27.444	1.00	0.00
ATOM	1453	H	ARG	95	-1.895	6.931	22.412	1.00	0.00
ATOM	1454	HA	ARG	95	-0.689	4.319	22.791	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.603	4.502	23.036	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.745	5.637	24.069	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.233	2.672	23.988	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.255	3.489	25.171	1.00	0.00
ATOM	1459	1HD	ARG	95	-1.289	4.871	25.822	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.298	3.885	24.748	1.00	0.00
ATOM	1461	HE	ARG	95	-1.606	2.965	27.218	1.00	0.00
ATOM	1462	1HH1	ARG	95	0.709	2.487	24.644	1.00	0.00
ATOM	1463	2HH1	ARG	95	1.458	1.115	25.390	1.00	0.00
ATOM	1464	1HH2	ARG	95	-0.623	1.153	28.227	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.702	0.359	27.434	1.00	0.00
ATOM	1466	N	LEU	96	-2.519	5.088	20.251	1.00	0.00
ATOM	1467	CA	LEU	96	-3.004	4.660	18.939	1.00	0.00
ATOM	1472	C	LEU	96	-1.928	3.870	18.204	1.00	0.00
ATOM	1473	O	LEU	96	-2.223	2.942	17.445	1.00	0.00
ATOM	1468	CB	LEU	96	-3.422	5.881	18.110	1.00	0.00
ATOM	1469	CG	LEU	96	-4.632	5.693	17.184	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.177	5.602	15.738	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.441	4.460	17.566	1.00	0.00
ATOM	1474	H	LEU	96	-2.557	6.044	20.478	1.00	0.00
ATOM	1475	HA	LEU	96	-3.863	4.023	19.092	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.580	6.176	17.503	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.647	6.686	18.794	1.00	0.00
ATOM	1478	HG	LEU	96	-5.277	6.555	17.272	1.00	0.00
ATOM	1479	1HD1	LEU	96	-5.009	5.302	15.117	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.385	4.872	15.656	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.815	6.566	15.415	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.064	4.689	18.417	1.00	0.00
ATOM	1483	2HD2	LEU	96	-4.769	3.653	17.819	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.062	4.164	16.734	1.00	0.00
ATOM	1485	N	VAL	97	-0.678	4.225	18.469	1.00	0.00
ATOM	1486	CA	VAL	97	0.456	3.542	17.870	1.00	0.00
ATOM	1490	C	VAL	97	0.468	2.091	18.319	1.00	0.00
ATOM	1491	O	VAL	97	0.509	1.171	17.505	1.00	0.00
ATOM	1487	CB	VAL	97	1.785	4.184	18.292	1.00	0.00
ATOM	1488	CG1	VAL	97	2.903	3.652	17.425	1.00	0.00
ATOM	1489	CG2	VAL	97	1.709	5.701	18.219	1.00	0.00
ATOM	1492	H	VAL	97	-0.516	4.953	19.112	1.00	0.00
ATOM	1493	HA	VAL	97	0.373	3.592	16.786	1.00	0.00
ATOM	1494	HB	VAL	97	1.988	3.901	19.315	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.850	4.110	16.448	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.806	2.581	17.327	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.854	3.888	17.880	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.315	5.997	17.258	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.698	6.117	18.346	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.061	6.067	19.001	1.00	0.00
ATOM	1501	N	ALA	98	0.417	1.910	19.634	1.00	0.00
ATOM	1502	CA	ALA	98	0.414	0.589	20.237	1.00	0.00
ATOM	1504	C	ALA	98	-0.822	-0.201	19.833	1.00	0.00
ATOM	1505	O	ALA	98	-0.764	-1.417	19.724	1.00	0.00



ATOM	1503	CB	ALA	98	0.498	0.700	21.752	1.00	0.00
ATOM	1506	H	ALA	98	0.373	2.695	20.213	1.00	0.00
ATOM	1507	HA	ALA	98	1.293	0.064	19.891	1.00	0.00
ATOM	1508	1HB	ALA	98	0.086	-0.191	22.201	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.064	1.562	22.081	1.00	0.00
ATOM	1510	3HB	ALA	98	1.531	0.807	22.048	1.00	0.00
ATOM	1511	N	PHE	99	-1.930	0.498	19.603	1.00	0.00
ATOM	1512	CA	PHE	99	-3.175	-0.144	19.200	1.00	0.00
ATOM	1520	C	PHE	99	-2.959	-0.965	17.931	1.00	0.00
ATOM	1521	O	PHE	99	-3.254	-2.161	17.890	1.00	0.00
ATOM	1513	CB	PHE	99	-4.254	0.915	18.933	1.00	0.00
ATOM	1514	CG	PHE	99	-5.105	1.301	20.118	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.936	0.381	20.740	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.092	2.604	20.587	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.736	0.760	21.808	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.881	2.987	21.652	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.707	2.069	22.264	1.00	0.00
ATOM	1522	H	PHE	99	-1.911	1.473	19.700	1.00	0.00
ATOM	1523	HA	PHE	99	-3.492	-0.798	19.995	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.908	0.548	18.162	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.773	1.815	18.577	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.958	-0.640	20.387	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.447	3.328	20.110	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.380	0.037	22.285	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.855	4.008	22.005	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.333	2.374	23.094	1.00	0.00
ATOM	1531	N	PHE	100	-2.437	-0.309	16.903	1.00	0.00
ATOM	1532	CA	PHE	100	-2.177	-0.961	15.626	1.00	0.00
ATOM	1540	C	PHE	100	-0.946	-1.859	15.711	1.00	0.00
ATOM	1541	O	PHE	100	-0.920	-2.953	15.143	1.00	0.00
ATOM	1533	CB	PHE	100	-1.983	0.086	14.526	1.00	0.00
ATOM	1534	CG	PHE	100	-3.263	0.501	13.858	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.102	1.431	14.451	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.631	-0.044	12.638	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.281	1.810	13.841	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.811	0.330	12.023	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.637	1.257	12.627	1.00	0.00
ATOM	1542	H	PHE	100	-2.223	0.647	17.005	1.00	0.00
ATOM	1543	HA	PHE	100	-3.035	-1.569	15.383	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.327	-0.316	13.768	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.532	0.968	14.954	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.984	-0.769	12.165	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.823	1.866	15.400	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.086	-0.102	11.073	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.927	2.535	14.314	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.561	1.550	12.149	1.00	0.00
ATOM	1551	N	VAL	101	0.072	-1.385	16.420	1.00	0.00
ATOM	1552	CA	VAL	101	1.316	-2.129	16.581	1.00	0.00
ATOM	1556	C	VAL	101	1.076	-3.464	17.286	1.00	0.00
ATOM	1557	O	VAL	101	1.710	-4.465	16.951	1.00	0.00
ATOM	1553	CB	VAL	101	2.370	-1.293	17.357	1.00	0.00
ATOM	1554	CG1	VAL	101	3.378	-2.177	18.082	1.00	0.00
ATOM	1555	CG2	VAL	101	3.091	-0.342	16.411	1.00	0.00
ATOM	1558	H	VAL	101	-0.012	-0.501	16.844	1.00	0.00
ATOM	1559	HA	VAL	101	1.708	-2.327	15.593	1.00	0.00
ATOM	1560	HB	VAL	101	1.852	-0.698	18.097	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.222	-3.208	17.797	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.245	-2.074	19.148	1.00	0.00
ATOM	1563	3HG1	VAL	101	4.381	-1.877	17.813	1.00	0.00
ATOM	1564	1HG2	VAL	101	4.109	-0.674	16.274	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.089	0.652	16.832	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.583	-0.331	15.457	1.00	0.00
ATOM	1567	N	PHE	102	0.157	-3.475	18.251	1.00	0.00
ATOM	1568	CA	PHE	102	-0.162	-4.686	19.002	1.00	0.00
ATOM	1576	C	PHE	102	-0.507	-5.844	18.076	1.00	0.00
ATOM	1577	O	PHE	102	0.147	-6.886	18.099	1.00	0.00
ATOM	1569	CB	PHE	102	-1.340	-4.434	19.943	1.00	0.00
ATOM	1570	CG	PHE	102	-0.953	-4.301	21.385	1.00	0.00
ATOM	1571	CD1	PHE	102	-0.079	-5.201	21.972	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.475	-3.278	22.157	1.00	0.00
ATOM	1573	CE1	PHE	102	0.265	-5.084	23.305	1.00	0.00
ATOM	1574	CE2	PHE	102	-1.133	-3.153	23.487	1.00	0.00
ATOM	1575	CZ	PHE	102	-0.264	-4.058	24.063	1.00	0.00



ATOM	1578	H	PHE	102	-0.324	-2.638	18.471	1.00	0.00
ATOM	1579	HA	PHE	102	0.704	-4.955	19.584	1.00	0.00
ATOM	1580	1HB	PHE	102	-2.036	-5.256	19.860	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.836	-3.521	19.649	1.00	0.00
ATOM	1582	HD1	PHE	102	0.335	-6.004	21.378	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.153	-2.569	21.707	1.00	0.00
ATOM	1584	HE1	PHE	102	0.945	-5.792	23.753	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.548	-2.349	24.078	1.00	0.00
ATOM	1586	HZ	PHE	102	-0.005	-3.967	25.106	1.00	0.00
ATOM	1587	N	GLY	103	-1.541	-5.658	17.271	1.00	0.00
ATOM	1588	CA	GLY	103	-1.961	-6.703	16.363	1.00	0.00
ATOM	1589	C	GLY	103	-0.981	-6.946	15.237	1.00	0.00
ATOM	1590	O	GLY	103	-0.759	-8.087	14.856	1.00	0.00
ATOM	1591	H	GLY	103	-2.028	-4.806	17.302	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.913	-6.439	15.941	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.075	-7.619	16.924	1.00	0.00
ATOM	1594	N	ALA	104	-0.390	-5.881	14.706	1.00	0.00
ATOM	1595	CA	ALA	104	0.573	-6.013	13.616	1.00	0.00
ATOM	1597	C	ALA	104	1.758	-6.869	14.042	1.00	0.00
ATOM	1598	O	ALA	104	2.185	-7.759	13.308	1.00	0.00
ATOM	1596	CB	ALA	104	1.042	-4.643	13.147	1.00	0.00
ATOM	1599	H	ALA	104	-0.604	-4.988	15.054	1.00	0.00
ATOM	1600	HA	ALA	104	0.073	-6.503	12.789	1.00	0.00
ATOM	1601	1HB	ALA	104	0.242	-3.928	13.268	1.00	0.00
ATOM	1602	2HB	ALA	104	1.325	-4.695	12.107	1.00	0.00
ATOM	1603	3HB	ALA	104	1.892	-4.333	13.737	1.00	0.00
ATOM	1604	N	ALA	105	2.273	-6.617	15.238	1.00	0.00
ATOM	1605	CA	ALA	105	3.390	-7.391	15.751	1.00	0.00
ATOM	1607	C	ALA	105	2.928	-8.804	16.084	1.00	0.00
ATOM	1608	O	ALA	105	3.621	-9.783	15.796	1.00	0.00
ATOM	1606	CB	ALA	105	3.994	-6.716	16.974	1.00	0.00
ATOM	1609	H	ALA	105	1.881	-5.904	15.798	1.00	0.00
ATOM	1610	HA	ALA	105	4.146	-7.440	14.981	1.00	0.00
ATOM	1611	1HB	ALA	105	3.343	-5.918	17.304	1.00	0.00
ATOM	1612	2HB	ALA	105	4.962	-6.309	16.721	1.00	0.00
ATOM	1613	3HB	ALA	105	4.105	-7.440	17.768	1.00	0.00
ATOM	1614	N	LEU	106	1.739	-8.896	16.678	1.00	0.00
ATOM	1615	CA	LEU	106	1.148	-10.177	17.048	1.00	0.00
ATOM	1620	C	LEU	106	0.992	-11.065	15.819	1.00	0.00
ATOM	1621	O	LEU	106	1.359	-12.239	15.827	1.00	0.00
ATOM	1616	CB	LEU	106	-0.220	-9.944	17.703	1.00	0.00
ATOM	1617	CG	LEU	106	-0.501	-10.771	18.958	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.929	-9.864	20.102	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.569	-11.818	18.683	1.00	0.00
ATOM	1622	H	LEU	106	1.233	-8.070	16.864	1.00	0.00
ATOM	1623	HA	LEU	106	1.806	-10.661	17.753	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.989	-10.157	16.975	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.286	-8.899	17.970	1.00	0.00
ATOM	1626	HG	LEU	106	0.402	-11.282	19.257	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.570	-10.270	21.036	1.00	0.00
ATOM	1628	2HD1	LEU	106	-2.007	-9.801	20.128	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.515	-8.877	19.954	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.833	-11.796	17.635	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.445	-11.605	19.279	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.189	-12.796	18.938	1.00	0.00
ATOM	1633	N	CYS	107	0.451	-10.476	14.770	1.00	0.00
ATOM	1634	CA	CYS	107	0.225	-11.161	13.507	1.00	0.00
ATOM	1637	C	CYS	107	1.543	-11.563	12.854	1.00	0.00
ATOM	1638	O	CYS	107	1.690	-12.689	12.384	1.00	0.00
ATOM	1635	CB	CYS	107	-0.578	-10.252	12.575	1.00	0.00
ATOM	1636	SG	CYS	107	-2.325	-10.098	13.018	1.00	0.00
ATOM	1639	H	CYS	107	0.190	-9.531	14.846	1.00	0.00
ATOM	1640	HA	CYS	107	-0.349	-12.051	13.707	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.524	-10.636	11.570	1.00	0.00
ATOM	1642	2HB	CYS	107	-0.148	-9.262	12.595	1.00	0.00
ATOM	1643	HG	CYS	107	-2.527	-10.795	14.127	1.00	0.00
ATOM	1644	N	ALA	108	2.501	-10.640	12.832	1.00	0.00
ATOM	1645	CA	ALA	108	3.808	-10.897	12.234	1.00	0.00
ATOM	1647	C	ALA	108	4.469	-12.133	12.838	1.00	0.00
ATOM	1648	O	ALA	108	5.089	-12.927	12.128	1.00	0.00
ATOM	1646	CB	ALA	108	4.711	-9.683	12.396	1.00	0.00
ATOM	1649	H	ALA	108	2.322	-9.756	13.226	1.00	0.00
ATOM	1650	HA	ALA	108	3.660	-11.065	11.177	1.00	0.00



ATOM	1651	1HB	ALA	108	4.107	-8.803	12.559	1.00	0.00
ATOM	1652	2HB	ALA	108	5.303	-9.553	11.502	1.00	0.00
ATOM	1653	3HB	ALA	108	5.366	-9.832	13.242	1.00	0.00
ATOM	1654	N	GLU	109	4.337	-12.296	14.146	1.00	0.00
ATOM	1655	CA	GLU	109	4.929	-13.440	14.823	1.00	0.00
ATOM	1661	C	GLU	109	4.018	-14.661	14.767	1.00	0.00
ATOM	1662	O	GLU	109	4.425	-15.765	15.133	1.00	0.00
ATOM	1656	CB	GLU	109	5.267	-13.099	16.270	1.00	0.00
ATOM	1657	CG	GLU	109	6.725	-12.724	16.465	1.00	0.00
ATOM	1658	CD	GLU	109	7.352	-13.417	17.656	1.00	0.00
ATOM	1659	OE1	GLU	109	6.839	-14.480	18.067	1.00	0.00
ATOM	1660	OE2	GLU	109	8.368	-12.913	18.171	1.00	0.00
ATOM	1663	H	GLU	109	3.833	-11.632	14.671	1.00	0.00
ATOM	1664	HA	GLU	109	5.845	-13.680	14.303	1.00	0.00
ATOM	1665	1HB	GLU	109	5.050	-13.955	16.892	1.00	0.00
ATOM	1666	2HB	GLU	109	4.655	-12.267	16.588	1.00	0.00
ATOM	1667	1HG	GLU	109	6.791	-11.657	16.609	1.00	0.00
ATOM	1668	2HG	GLU	109	7.275	-13.000	15.578	1.00	0.00
ATOM	1669	N	SER	110	2.796	-14.472	14.298	1.00	0.00
ATOM	1670	CA	SER	110	1.854	-15.572	14.185	1.00	0.00
ATOM	1673	C	SER	110	1.983	-16.237	12.816	1.00	0.00
ATOM	1674	O	SER	110	1.734	-17.431	12.671	1.00	0.00
ATOM	1671	CB	SER	110	0.424	-15.080	14.415	1.00	0.00
ATOM	1672	OG	SER	110	0.241	-14.662	15.758	1.00	0.00
ATOM	1675	H	SER	110	2.522	-13.573	14.011	1.00	0.00
ATOM	1676	HA	SER	110	2.102	-16.298	14.946	1.00	0.00
ATOM	1677	1HB	SER	110	-0.269	-15.881	14.202	1.00	0.00
ATOM	1678	2HB	SER	110	0.221	-14.245	13.760	1.00	0.00
ATOM	1679	HG	SER	110	0.666	-13.804	15.889	1.00	0.00
ATOM	1680	N	VAL	111	2.389	-15.452	11.818	1.00	0.00
ATOM	1681	CA	VAL	111	2.561	-15.961	10.458	1.00	0.00
ATOM	1685	C	VAL	111	3.742	-16.930	10.380	1.00	0.00
ATOM	1686	O	VAL	111	3.729	-17.877	9.598	1.00	0.00
ATOM	1682	CB	VAL	111	2.775	-14.813	9.438	1.00	0.00
ATOM	1683	CG1	VAL	111	2.896	-15.356	8.021	1.00	0.00
ATOM	1684	CG2	VAL	111	1.641	-13.805	9.517	1.00	0.00
ATOM	1687	H	VAL	111	2.575	-14.506	12.001	1.00	0.00
ATOM	1688	HA	VAL	111	1.660	-16.490	10.186	1.00	0.00
ATOM	1689	HB	VAL	111	3.698	-14.303	9.684	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.118	-16.085	7.847	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.861	-15.825	7.896	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.796	-14.545	7.316	1.00	0.00
ATOM	1693	1HG2	VAL	111	0.860	-14.088	8.827	1.00	0.00
ATOM	1694	2HG2	VAL	111	2.012	-12.825	9.259	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.245	-13.788	10.522	1.00	0.00
ATOM	1696	N	ASN	112	4.763	-16.690	11.198	1.00	0.00
ATOM	1697	CA	ASN	112	5.943	-17.553	11.205	1.00	0.00
ATOM	1702	C	ASN	112	5.737	-18.761	12.117	1.00	0.00
ATOM	1703	O	ASN	112	6.625	-19.598	12.265	1.00	0.00
ATOM	1698	CB	ASN	112	7.205	-16.769	11.610	1.00	0.00
ATOM	1699	CG	ASN	112	7.240	-16.363	13.076	1.00	0.00
ATOM	1700	OD1	ASN	112	7.397	-17.197	13.968	1.00	0.00
ATOM	1701	ND2	ASN	112	7.111	-15.069	13.333	1.00	0.00
ATOM	1704	H	ASN	112	4.724	-15.921	11.807	1.00	0.00
ATOM	1705	HA	ASN	112	6.077	-17.917	10.196	1.00	0.00
ATOM	1706	1HB	ASN	112	7.263	-15.871	11.010	1.00	0.00
ATOM	1707	2HB	ASN	112	8.072	-17.379	11.411	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.998	-14.453	12.577	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.146	-14.778	14.269	1.00	0.00
ATOM	1710	N	LYS	113	4.559	-18.847	12.721	1.00	0.00
ATOM	1711	CA	LYS	113	4.233	-19.952	13.608	1.00	0.00
ATOM	1717	C	LYS	113	2.940	-20.627	13.163	1.00	0.00
ATOM	1718	O	LYS	113	2.418	-20.338	12.086	1.00	0.00
ATOM	1712	CB	LYS	113	4.096	-19.449	15.048	1.00	0.00
ATOM	1713	CG	LYS	113	5.402	-19.464	15.824	1.00	0.00
ATOM	1714	CD	LYS	113	5.204	-19.002	17.257	1.00	0.00
ATOM	1715	CE	LYS	113	6.089	-17.812	17.586	1.00	0.00
ATOM	1716	NZ	LYS	113	5.322	-16.538	17.605	1.00	0.00
ATOM	1719	H	LYS	113	3.883	-18.155	12.554	1.00	0.00
ATOM	1720	HA	LYS	113	5.039	-20.669	13.559	1.00	0.00
ATOM	1721	1HB	LYS	113	3.384	-20.072	15.569	1.00	0.00
ATOM	1722	2HB	LYS	113	3.726	-18.434	15.027	1.00	0.00
ATOM	1723	1HG	LYS	113	6.106	-18.804	15.338	1.00	0.00



ATOM	1724	2HG	LYS	113	5.793	-20.469	15.833	1.00	0.00
ATOM	1725	1HD	LYS	113	5.448	-19.816	17.926	1.00	0.00
ATOM	1726	2HD	LYS	113	4.171	-18.719	17.395	1.00	0.00
ATOM	1727	1HE	LYS	113	6.867	-17.742	16.840	1.00	0.00
ATOM	1728	2HE	LYS	113	6.536	-17.966	18.557	1.00	0.00
ATOM	1729	1HZ	LYS	113	4.921	-16.347	16.661	1.00	0.00
ATOM	1730	2HZ	LYS	113	5.952	-15.742	17.868	1.00	0.00
ATOM	1731	3HZ	LYS	113	4.549	-16.593	18.294	1.00	0.00
ATOM	1732	N	GLU	114	2.419	-21.523	13.991	1.00	0.00
ATOM	1733	CA	GLU	114	1.183	-22.230	13.675	1.00	0.00
ATOM	1739	C	GLU	114	-0.031	-21.426	14.139	1.00	0.00
ATOM	1740	O	GLU	114	-0.883	-21.929	14.874	1.00	0.00
ATOM	1734	CB	GLU	114	1.171	-23.614	14.329	1.00	0.00
ATOM	1735	CG	GLU	114	2.424	-24.430	14.060	1.00	0.00
ATOM	1736	CD	GLU	114	2.902	-25.168	15.292	1.00	0.00
ATOM	1737	OE1	GLU	114	2.375	-26.263	15.574	1.00	0.00
ATOM	1738	OE2	GLU	114	3.802	-24.653	15.986	1.00	0.00
ATOM	1741	H	GLU	114	2.875	-21.715	14.837	1.00	0.00
ATOM	1742	HA	GLU	114	1.133	-22.348	12.602	1.00	0.00
ATOM	1743	1HB	GLU	114	0.321	-24.167	13.958	1.00	0.00
ATOM	1744	2HB	GLU	114	1.070	-23.493	15.397	1.00	0.00
ATOM	1745	1HG	GLU	114	3.207	-23.764	13.729	1.00	0.00
ATOM	1746	2HG	GLU	114	2.211	-25.151	13.285	1.00	0.00
ATOM	1747	N	MET	115	-0.096	-20.170	13.715	1.00	0.00
ATOM	1748	CA	MET	115	-1.193	-19.286	14.092	1.00	0.00
ATOM	1753	C	MET	115	-1.681	-18.499	12.882	1.00	0.00
ATOM	1754	O	MET	115	-1.874	-17.284	12.949	1.00	0.00
ATOM	1749	CB	MET	115	-0.740	-18.322	15.193	1.00	0.00
ATOM	1750	CG	MET	115	-0.547	-18.978	16.549	1.00	0.00
ATOM	1751	SD	MET	115	1.193	-19.213	16.971	1.00	0.00
ATOM	1752	CE	MET	115	1.129	-20.803	17.792	1.00	0.00
ATOM	1755	H	MET	115	0.619	-19.823	13.136	1.00	0.00
ATOM	1756	HA	MET	115	-2.002	-19.896	14.465	1.00	0.00
ATOM	1757	1HB	MET	115	-1.479	-17.540	15.298	1.00	0.00
ATOM	1758	2HB	MET	115	0.199	-17.876	14.900	1.00	0.00
ATOM	1759	1HG	MET	115	-1.034	-19.944	16.538	1.00	0.00
ATOM	1760	2HG	MET	115	-1.004	-18.356	17.304	1.00	0.00
ATOM	1761	1HE	MET	115	0.932	-20.657	18.844	1.00	0.00
ATOM	1762	2HE	MET	115	2.075	-21.310	17.669	1.00	0.00
ATOM	1763	3HE	MET	115	0.342	-21.401	17.357	1.00	0.00
ATOM	1764	N	GLU	116	-1.871	-19.202	11.775	1.00	0.00
ATOM	1765	CA	GLU	116	-2.322	-18.589	10.530	1.00	0.00
ATOM	1771	C	GLU	116	-3.736	-17.995	10.647	1.00	0.00
ATOM	1772	O	GLU	116	-3.926	-16.808	10.376	1.00	0.00
ATOM	1766	CB	GLU	116	-2.257	-19.603	9.379	1.00	0.00
ATOM	1767	CG	GLU	116	-0.948	-20.379	9.321	1.00	0.00
ATOM	1768	CD	GLU	116	-1.014	-21.700	10.062	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.843	-21.830	10.987	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.238	-22.616	9.726	1.00	0.00
ATOM	1773	H	GLU	116	-1.695	-20.174	11.789	1.00	0.00
ATOM	1774	HA	GLU	116	-1.638	-17.782	10.309	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.381	-19.077	8.444	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.064	-20.312	9.493	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.167	-19.776	9.762	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.708	-20.576	8.287	1.00	0.00
ATOM	1779	N	PRO	117	-4.759	-18.789	11.041	1.00	0.00
ATOM	1780	CA	PRO	117	-6.136	-18.286	11.161	1.00	0.00
ATOM	1784	C	PRO	117	-6.278	-17.216	12.240	1.00	0.00
ATOM	1785	O	PRO	117	-7.165	-16.365	12.171	1.00	0.00
ATOM	1781	CB	PRO	117	-6.955	-19.529	11.539	1.00	0.00
ATOM	1782	CG	PRO	117	-6.088	-20.693	11.197	1.00	0.00
ATOM	1783	CD	PRO	117	-4.677	-20.221	11.384	1.00	0.00
ATOM	1786	HA	PRO	117	-6.492	-17.893	10.220	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.873	-19.543	10.970	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.182	-19.504	12.594	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.252	-20.985	10.171	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.299	-21.517	11.863	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.011	-20.741	10.712	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.365	-20.356	12.410	1.00	0.00
ATOM	1793	N	LEU	118	-5.399	-17.265	13.235	1.00	0.00
ATOM	1794	CA	LEU	118	-5.425	-16.306	14.333	1.00	0.00
ATOM	1799	C	LEU	118	-5.086	-14.898	13.848	1.00	0.00
ATOM	1800	O	LEU	118	-5.552	-13.912	14.417	1.00	0.00



ATOM	1795	CB	LEU	118	-4.454	-16.737	15.440	1.00	0.00
ATOM	1796	CG	LEU	118	-4.599	-15.980	16.761	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.759	-16.538	17.571	1.00	0.00
ATOM	1798	CD2	LEU	118	-3.303	-16.049	17.557	1.00	0.00
ATOM	1801	H	LEU	118	-4.715	-17.965	13.228	1.00	0.00
ATOM	1802	HA	LEU	118	-6.427	-16.298	14.735	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.447	-16.601	15.081	1.00	0.00
ATOM	1804	2HB	LEU	118	-4.610	-17.788	15.633	1.00	0.00
ATOM	1805	HG	LEU	118	-4.809	-14.941	16.552	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.460	-15.745	17.788	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.386	-16.952	18.496	1.00	0.00
ATOM	1808	3HD1	LEU	118	-6.254	-17.312	17.004	1.00	0.00
ATOM	1809	1HD2	LEU	118	-3.154	-17.057	17.915	1.00	0.00
ATOM	1810	2HD2	LEU	118	-3.360	-15.373	18.397	1.00	0.00
ATOM	1811	3HD2	LEU	118	-2.476	-15.767	16.922	1.00	0.00
ATOM	1812	N	VAL	119	-4.283	-14.814	12.791	1.00	0.00
ATOM	1813	CA	VAL	119	-3.883	-13.530	12.220	1.00	0.00
ATOM	1817	C	VAL	119	-5.102	-12.700	11.811	1.00	0.00
ATOM	1818	O	VAL	119	-5.238	-11.544	12.214	1.00	0.00
ATOM	1814	CB	VAL	119	-2.960	-13.733	10.995	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.732	-12.423	10.254	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.633	-14.342	11.421	1.00	0.00
ATOM	1819	H	VAL	119	-3.951	-15.641	12.380	1.00	0.00
ATOM	1820	HA	VAL	119	-3.330	-12.987	12.976	1.00	0.00
ATOM	1821	HB	VAL	119	-3.444	-14.421	10.318	1.00	0.00
ATOM	1822	1HG1	VAL	119	-3.317	-11.642	10.715	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.032	-12.538	9.223	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.684	-12.163	10.297	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.359	-13.965	12.395	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.869	-14.078	10.705	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.729	-15.417	11.465	1.00	0.00
ATOM	1828	N	GLY	120	-5.990	-13.297	11.020	1.00	0.00
ATOM	1829	CA	GLY	120	-7.182	-12.592	10.583	1.00	0.00
ATOM	1830	C	GLY	120	-8.089	-12.224	11.740	1.00	0.00
ATOM	1831	O	GLY	120	-8.751	-11.188	11.711	1.00	0.00
ATOM	1832	H	GLY	120	-5.835	-14.222	10.736	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.728	-13.211	9.893	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.882	-11.686	10.075	1.00	0.00
ATOM	1835	N	GLN	121	-8.102	-13.062	12.771	1.00	0.00
ATOM	1836	CA	GLN	121	-8.912	-12.803	13.949	1.00	0.00
ATOM	1842	C	GLN	121	-8.394	-11.566	14.664	1.00	0.00
ATOM	1843	O	GLN	121	-9.144	-10.640	14.921	1.00	0.00
ATOM	1837	CB	GLN	121	-8.907	-14.005	14.898	1.00	0.00
ATOM	1838	CG	GLN	121	-9.282	-15.327	14.240	1.00	0.00
ATOM	1839	CD	GLN	121	-10.497	-15.225	13.335	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.479	-15.696	12.199	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.560	-14.615	13.830	1.00	0.00
ATOM	1844	H	GLN	121	-7.542	-13.860	12.744	1.00	0.00
ATOM	1845	HA	GLN	121	-9.925	-12.610	13.627	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.610	-13.817	15.697	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.919	-14.109	15.322	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.489	-16.051	15.014	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.444	-15.667	13.650	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.514	-14.264	14.743	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.356	-14.527	13.257	1.00	0.00
ATOM	1852	N	VAL	122	-7.102	-11.535	14.959	1.00	0.00
ATOM	1853	CA	VAL	122	-6.508	-10.378	15.624	1.00	0.00
ATOM	1857	C	VAL	122	-6.734	-9.125	14.786	1.00	0.00
ATOM	1858	O	VAL	122	-6.968	-8.038	15.319	1.00	0.00
ATOM	1854	CB	VAL	122	-4.993	-10.577	15.864	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.402	-9.395	16.614	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.730	-11.870	16.621	1.00	0.00
ATOM	1859	H	VAL	122	-6.531	-12.297	14.712	1.00	0.00
ATOM	1860	HA	VAL	122	-7.005	-10.247	16.583	1.00	0.00
ATOM	1861	HB	VAL	122	-4.504	-10.646	14.902	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.511	-9.055	16.107	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.152	-9.696	17.620	1.00	0.00
ATOM	1864	3HG1	VAL	122	-5.125	-8.592	16.647	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.397	-11.932	17.469	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.708	-11.884	16.966	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.901	-12.712	15.965	1.00	0.00
ATOM	1868	N	GLN	123	-6.693	-9.297	13.472	1.00	0.00
ATOM	1869	CA	GLN	123	-6.917	-8.200	12.549	1.00	0.00



ATOM	1875	C	GLN	123	-8.325	-7.643	12.723	1.00	0.00
ATOM	1876	O	GLN	123	-8.513	-6.427	12.817	1.00	0.00
ATOM	1870	CB	GLN	123	-6.706	-8.669	11.108	1.00	0.00
ATOM	1871	CG	GLN	123	-6.173	-7.586	10.188	1.00	0.00
ATOM	1872	CD	GLN	123	-5.816	-8.120	8.818	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.499	-8.988	8.279	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.739	-7.610	8.246	1.00	0.00
ATOM	1877	H	GLN	123	-6.522	-10.196	13.113	1.00	0.00
ATOM	1878	HA	GLN	123	-6.205	-7.422	12.778	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.650	-9.016	10.712	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.004	-9.491	11.106	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.289	-7.154	10.634	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.929	-6.822	10.076	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.238	-6.925	8.734	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.487	-7.940	7.357	1.00	0.00
ATOM	1885	N	GLU	124	-9.310	-8.532	12.779	1.00	0.00
ATOM	1886	CA	GLU	124	-10.688	-8.107	12.952	1.00	0.00
ATOM	1892	C	GLU	124	-10.933	-7.620	14.375	1.00	0.00
ATOM	1893	O	GLU	124	-11.621	-6.626	14.562	1.00	0.00
ATOM	1887	CB	GLU	124	-11.677	-9.213	12.572	1.00	0.00
ATOM	1888	CG	GLU	124	-11.580	-10.460	13.427	1.00	0.00
ATOM	1889	CD	GLU	124	-12.811	-11.339	13.312	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.543	-11.215	12.307	1.00	0.00
ATOM	1891	OE2	GLU	124	-13.057	-12.154	14.225	1.00	0.00
ATOM	1894	H	GLU	124	-9.104	-9.491	12.708	1.00	0.00
ATOM	1895	HA	GLU	124	-10.844	-7.270	12.286	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.501	-9.495	11.544	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.681	-8.825	12.658	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.457	-10.170	14.457	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.713	-11.019	13.119	1.00	0.00
ATOM	1900	N	TRP	125	-10.355	-8.293	15.378	1.00	0.00
ATOM	1901	CA	TRP	125	-10.533	-7.858	16.766	1.00	0.00
ATOM	1912	C	TRP	125	-10.095	-6.409	16.897	1.00	0.00
ATOM	1913	O	TRP	125	-10.698	-5.618	17.626	1.00	0.00
ATOM	1902	CB	TRP	125	-9.698	-8.689	17.759	1.00	0.00
ATOM	1903	CG	TRP	125	-9.896	-10.177	17.726	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.965	-10.884	17.246	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.962	-11.146	18.209	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.735	-12.236	17.391	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.509	-12.417	17.971	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.705	-11.054	18.816	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.836	-13.592	18.309	1.00	0.00
ATOM	1910	CZ3	TRP	125	-7.043	-12.217	19.154	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.605	-13.472	18.895	1.00	0.00
ATOM	1914	H	TRP	125	-9.791	-9.082	15.181	1.00	0.00
ATOM	1915	HA	TRP	125	-11.580	-7.931	17.012	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.913	-8.352	18.758	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.654	-8.506	17.557	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.848	-10.439	16.816	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.347	-12.950	17.122	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.261	-10.093	19.044	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.256	-14.568	18.115	1.00	0.00
ATOM	1922	HZ3	TRP	125	-6.069	-12.164	19.619	1.00	0.00
ATOM	1923	HH2	TRP	125	-7.053	-14.355	19.188	1.00	0.00
ATOM	1924	N	MET	126	-9.034	-6.075	16.182	1.00	0.00
ATOM	1925	CA	MET	126	-8.491	-4.727	16.216	1.00	0.00
ATOM	1930	C	MET	126	-9.365	-3.751	15.445	1.00	0.00
ATOM	1931	O	MET	126	-9.766	-2.714	15.976	1.00	0.00
ATOM	1926	CB	MET	126	-7.070	-4.714	15.655	1.00	0.00
ATOM	1927	CG	MET	126	-6.270	-3.486	16.054	1.00	0.00
ATOM	1928	SD	MET	126	-5.221	-2.880	14.717	1.00	0.00
ATOM	1929	CE	MET	126	-4.065	-4.237	14.554	1.00	0.00
ATOM	1932	H	MET	126	-8.599	-6.764	15.615	1.00	0.00
ATOM	1933	HA	MET	126	-8.461	-4.412	17.246	1.00	0.00
ATOM	1934	1HB	MET	126	-7.122	-4.749	14.577	1.00	0.00
ATOM	1935	2HB	MET	126	-6.548	-5.590	16.011	1.00	0.00
ATOM	1936	1HG	MET	126	-5.646	-3.738	16.898	1.00	0.00
ATOM	1937	2HG	MET	126	-6.958	-2.702	16.336	1.00	0.00
ATOM	1938	1HE	MET	126	-4.070	-4.826	15.458	1.00	0.00
ATOM	1939	2HE	MET	126	-3.072	-3.846	14.385	1.00	0.00
ATOM	1940	3HE	MET	126	-4.353	-4.858	13.717	1.00	0.00
ATOM	1941	N	VAL	127	-9.651	-4.070	14.192	1.00	0.00
ATOM	1942	CA	VAL	127	-10.461	-3.192	13.359	1.00	0.00



ATOM	1946	C	VAL	127	-11.881	-3.019	13.911	1.00	0.00
ATOM	1947	O	VAL	127	-12.458	-1.939	13.794	1.00	0.00
ATOM	1943	CB	VAL	127	-10.499	-3.662	11.880	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.476	-4.810	11.674	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.834	-2.497	10.957	1.00	0.00
ATOM	1948	H	VAL	127	-9.295	-4.906	13.814	1.00	0.00
ATOM	1949	HA	VAL	127	-9.983	-2.222	13.376	1.00	0.00
ATOM	1950	HB	VAL	127	-9.511	-4.016	11.618	1.00	0.00
ATOM	1951	1HG1	VAL	127	-12.208	-4.808	12.468	1.00	0.00
ATOM	1952	2HG1	VAL	127	-10.939	-5.746	11.680	1.00	0.00
ATOM	1953	3HG1	VAL	127	-11.978	-4.689	10.723	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.884	-2.259	11.042	1.00	0.00
ATOM	1955	2HG2	VAL	127	-10.608	-2.770	9.937	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.246	-1.636	11.238	1.00	0.00
ATOM	1957	N	GLU	128	-12.442	-4.058	14.528	1.00	0.00
ATOM	1958	CA	GLU	128	-13.786	-3.957	15.082	1.00	0.00
ATOM	1964	C	GLU	128	-13.795	-3.036	16.290	1.00	0.00
ATOM	1965	O	GLU	128	-14.643	-2.151	16.398	1.00	0.00
ATOM	1959	CB	GLU	128	-14.329	-5.337	15.451	1.00	0.00
ATOM	1960	CG	GLU	128	-14.577	-6.226	14.243	1.00	0.00
ATOM	1961	CD	GLU	128	-15.921	-6.919	14.283	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.579	-6.887	15.345	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.322	-7.493	13.250	1.00	0.00
ATOM	1966	H	GLU	128	-11.942	-4.909	14.619	1.00	0.00
ATOM	1967	HA	GLU	128	-14.415	-3.524	14.323	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.261	-5.216	15.981	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.617	-5.831	16.097	1.00	0.00
ATOM	1970	1HG	GLU	128	-13.802	-6.978	14.202	1.00	0.00
ATOM	1971	2HG	GLU	128	-14.532	-5.619	13.351	1.00	0.00
ATOM	1972	N	TYR	129	-12.833	-3.223	17.181	1.00	0.00
ATOM	1973	CA	TYR	129	-12.723	-2.385	18.367	1.00	0.00
ATOM	1982	C	TYR	129	-12.493	-0.934	17.964	1.00	0.00
ATOM	1983	O	TYR	129	-12.967	0.001	18.616	1.00	0.00
ATOM	1974	CB	TYR	129	-11.563	-2.857	19.245	1.00	0.00
ATOM	1975	CG	TYR	129	-11.702	-2.452	20.696	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.290	-1.197	21.126	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.255	-3.316	21.632	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.425	-0.815	22.444	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.391	-2.941	22.955	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.975	-1.688	23.354	1.00	0.00
ATOM	1981	OK	TYR	129	-12.118	-1.303	24.666	1.00	0.00
ATOM	1984	H	TYR	129	-12.169	-3.934	17.032	1.00	0.00
ATOM	1985	HA	TYR	129	-13.647	-2.460	18.922	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.645	-2.430	18.870	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.497	-3.932	19.197	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.859	-0.514	20.409	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.578	-4.298	21.316	1.00	0.00
ATOM	1990	HE1	TYR	129	-11.098	0.166	22.757	1.00	0.00
ATOM	1991	HE2	TYR	129	-12.822	-3.627	23.669	1.00	0.00
ATOM	1992	HH	TYR	129	-12.513	-2.029	25.179	1.00	0.00
ATOM	1993	N	LEU	130	-11.754	-0.761	16.884	1.00	0.00
ATOM	1994	CA	LEU	130	-11.431	0.561	16.380	1.00	0.00
ATOM	1999	C	LEU	130	-12.639	1.246	15.747	1.00	0.00
ATOM	2000	O	LEU	130	-13.004	2.348	16.139	1.00	0.00
ATOM	1995	CB	LEU	130	-10.300	0.477	15.362	1.00	0.00
ATOM	1996	CG	LEU	130	-8.967	1.056	15.832	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.871	0.007	15.757	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.598	2.275	15.004	1.00	0.00
ATOM	2001	H	LEU	130	-11.406	-1.555	16.415	1.00	0.00
ATOM	2002	HA	LEU	130	-11.094	1.159	17.218	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.610	1.015	14.483	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.151	-0.563	15.104	1.00	0.00
ATOM	2005	HG	LEU	130	-9.060	1.366	16.862	1.00	0.00
ATOM	2006	1HD1	LEU	130	-8.283	-0.962	15.995	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.090	0.251	16.463	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.459	-0.013	14.759	1.00	0.00
ATOM	2009	1HD2	LEU	130	-9.160	3.130	15.350	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.829	2.090	13.965	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.542	2.475	15.106	1.00	0.00
ATOM	2012	N	GLU	131	-13.243	0.606	14.760	1.00	0.00
ATOM	2013	CA	GLU	131	-14.391	1.188	14.066	1.00	0.00
ATOM	2019	C	GLU	131	-15.576	1.419	15.002	1.00	0.00
ATOM	2020	O	GLU	131	-16.358	2.347	14.806	1.00	0.00



ATOM	2014	CB	GLU	131	-14.810	0.292	12.900	1.00	0.00
ATOM	2015	CG	GLU	131	-13.728	0.131	11.844	1.00	0.00
ATOM	2016	CD	GLU	131	-14.292	0.086	10.442	1.00	0.00
ATOM	2017	OE1	GLU	131	-14.971	-0.904	10.101	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.064	1.043	9.673	1.00	0.00
ATOM	2021	H	GLU	131	-12.902	-0.272	14.470	1.00	0.00
ATOM	2022	HA	GLU	131	-14.080	2.141	13.670	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.682	0.720	12.428	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.061	-0.686	13.282	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.195	-0.790	12.032	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.044	0.962	11.915	1.00	0.00
ATOM	2027	N	THR	132	-15.716	0.568	16.006	1.00	0.00
ATOM	2028	CA	THR	132	-16.825	0.680	16.944	1.00	0.00
ATOM	2032	C	THR	132	-16.575	1.698	18.062	1.00	0.00
ATOM	2033	O	THR	132	-17.508	2.370	18.505	1.00	0.00
ATOM	2029	CB	THR	132	-17.151	-0.690	17.573	1.00	0.00
ATOM	2030	OG1	THR	132	-17.224	-1.689	16.548	1.00	0.00
ATOM	2031	CG2	THR	132	-18.470	-0.650	18.334	1.00	0.00
ATOM	2034	H	THR	132	-15.074	-0.165	16.105	1.00	0.00
ATOM	2035	HA	THR	132	-17.693	0.995	16.383	1.00	0.00
ATOM	2036	HB	THR	132	-16.359	-0.949	18.264	1.00	0.00
ATOM	2037	HG1	THR	132	-16.336	-2.015	16.355	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.289	-0.622	17.631	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.499	0.230	18.956	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.555	-1.531	18.952	1.00	0.00
ATOM	2041	N	ARG	133	-15.341	1.801	18.557	1.00	0.00
ATOM	2042	CA	ARG	133	-15.072	2.727	19.660	1.00	0.00
ATOM	2050	C	ARG	133	-13.941	3.716	19.380	1.00	0.00
ATOM	2051	O	ARG	133	-14.059	4.890	19.725	1.00	0.00
ATOM	2043	CB	ARG	133	-14.767	1.952	20.952	1.00	0.00
ATOM	2044	CG	ARG	133	-15.377	0.558	21.010	1.00	0.00
ATOM	2045	CD	ARG	133	-16.166	0.345	22.295	1.00	0.00
ATOM	2046	NE	ARG	133	-15.983	-1.005	22.834	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.432	-1.270	24.021	1.00	0.00
ATOM	2048	NH1	ARG	133	-15.046	-0.280	24.815	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.280	-2.528	24.415	1.00	0.00
ATOM	2052	H	ARG	133	-14.623	1.231	18.206	1.00	0.00
ATOM	2053	HA	ARG	133	-15.973	3.300	19.815	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.143	2.521	21.789	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.697	1.855	21.051	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.583	-0.173	20.959	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.040	0.431	20.167	1.00	0.00
ATOM	2058	1HD	ARG	133	-17.215	0.503	22.090	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.831	1.062	23.030	1.00	0.00
ATOM	2060	HE	ARG	133	-16.281	-1.758	22.275	1.00	0.00
ATOM	2061	1HH1	ARG	133	-15.163	0.671	24.530	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.636	-0.484	25.715	1.00	0.00
ATOM	2063	1HH2	ARG	133	-15.588	-3.286	23.821	1.00	0.00
ATOM	2064	2HH2	ARG	133	-14.835	-2.734	25.300	1.00	0.00
ATOM	2065	N	LEU	134	-12.843	3.262	18.785	1.00	0.00
ATOM	2066	CA	LEU	134	-11.715	4.158	18.520	1.00	0.00
ATOM	2071	C	LEU	134	-12.120	5.304	17.598	1.00	0.00
ATOM	2072	O	LEU	134	-11.797	6.461	17.864	1.00	0.00
ATOM	2067	CB	LEU	134	-10.539	3.390	17.921	1.00	0.00
ATOM	2068	CG	LEU	134	-9.356	3.165	18.863	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.746	4.494	19.290	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.786	2.356	20.078	1.00	0.00
ATOM	2073	H	LEU	134	-12.779	2.312	18.533	1.00	0.00
ATOM	2074	HA	LEU	134	-11.407	4.577	19.467	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.184	3.934	17.058	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.899	2.427	17.596	1.00	0.00
ATOM	2077	HG	LEU	134	-8.599	2.602	18.339	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.801	4.637	18.785	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.586	4.493	20.358	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.417	5.300	19.029	1.00	0.00
ATOM	2081	1HD2	LEU	134	-8.960	1.748	20.416	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.617	1.721	19.810	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.086	3.027	20.869	1.00	0.00
ATOM	2084	N	ALA	135	-12.827	4.975	16.520	1.00	0.00
ATOM	2085	CA	ALA	135	-13.285	5.965	15.558	1.00	0.00
ATOM	2087	C	ALA	135	-14.053	7.093	16.241	1.00	0.00
ATOM	2088	O	ALA	135	-13.964	8.244	15.819	1.00	0.00
ATOM	2086	CB	ALA	135	-14.146	5.304	14.494	1.00	0.00



ATOM	2089	H	ALA	135	-13.043	4.029	16.363	1.00	0.00
ATOM	2090	HA	ALA	135	-12.414	6.381	15.072	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.527	5.009	13.660	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.899	6.001	14.157	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.626	4.430	14.912	1.00	0.00
ATOM	2094	N	ASP	136	-14.788	6.767	17.303	1.00	0.00
ATOM	2095	CA	ASP	136	-15.545	7.780	18.034	1.00	0.00
ATOM	2100	C	ASP	136	-14.599	8.771	18.686	1.00	0.00
ATOM	2101	O	ASP	136	-14.697	9.976	18.441	1.00	0.00
ATOM	2096	CB	ASP	136	-16.449	7.134	19.084	1.00	0.00
ATOM	2097	CG	ASP	136	-17.296	8.153	19.821	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.125	8.821	19.171	1.00	0.00
ATOM	2099	OD2	ASP	136	-17.138	8.288	21.050	1.00	0.00
ATOM	2102	H	ASP	136	-14.812	5.831	17.611	1.00	0.00
ATOM	2103	HA	ASP	136	-16.152	8.316	17.320	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.837	6.611	19.806	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.109	6.429	18.601	1.00	0.00
ATOM	2106	N	TRP	137	-13.663	8.266	19.486	1.00	0.00
ATOM	2107	CA	TRP	137	-12.683	9.120	20.132	1.00	0.00
ATOM	2118	C	TRP	137	-11.931	9.922	19.078	1.00	0.00
ATOM	2119	O	TRP	137	-11.766	11.132	19.199	1.00	0.00
ATOM	2108	CB	TRP	137	-11.698	8.267	20.949	1.00	0.00
ATOM	2109	CG	TRP	137	-10.592	9.062	21.580	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.539	9.504	22.866	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.383	9.508	20.954	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.380	10.210	23.076	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.655	10.225	21.916	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.847	9.374	19.670	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.426	10.802	21.632	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.627	9.949	19.392	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.927	10.654	20.370	1.00	0.00
ATOM	2120	H	TRP	137	-13.615	7.293	19.629	1.00	0.00
ATOM	2121	HA	TRP	137	-13.203	9.800	20.786	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.251	7.526	20.300	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.237	7.765	21.738	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.302	9.317	23.600	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.118	10.635	23.917	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.375	8.830	18.898	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.869	11.344	22.373	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.201	9.854	18.404	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.972	11.089	20.109	1.00	0.00
ATOM	2130	N	ILE	138	-11.471	9.222	18.048	1.00	0.00
ATOM	2131	CA	ILE	138	-10.712	9.833	16.970	1.00	0.00
ATOM	2136	C	ILE	138	-11.474	10.964	16.285	1.00	0.00
ATOM	2137	O	ILE	138	-10.919	12.041	16.060	1.00	0.00
ATOM	2132	CB	ILE	138	-10.285	8.771	15.924	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.096	7.965	16.451	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.931	9.418	14.592	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.090	6.522	16.002	1.00	0.00
ATOM	2138	H	ILE	138	-11.635	8.252	18.025	1.00	0.00
ATOM	2139	HA	ILE	138	-9.812	10.245	17.404	1.00	0.00
ATOM	2140	HB	ILE	138	-11.117	8.103	15.761	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.115	7.975	17.531	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.179	8.421	16.108	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.575	8.661	13.906	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.159	10.157	14.744	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.808	9.893	14.178	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.994	6.480	14.926	1.00	0.00
ATOM	2147	2HD1	ILE	138	-10.016	6.049	16.297	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.259	6.005	16.458	1.00	0.00
ATOM	2149	N	HIS	139	-12.736	10.728	15.946	1.00	0.00
ATOM	2150	CA	HIS	139	-13.532	11.745	15.264	1.00	0.00
ATOM	2157	C	HIS	139	-13.833	12.935	16.168	1.00	0.00
ATOM	2158	O	HIS	139	-13.980	14.057	15.690	1.00	0.00
ATOM	2151	CB	HIS	139	-14.827	11.147	14.708	1.00	0.00
ATOM	2152	CG	HIS	139	-14.650	10.497	13.366	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.689	11.193	12.180	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.406	9.206	13.029	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.476	10.365	11.176	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.302	9.150	11.661	1.00	0.00
ATOM	2159	H	HIS	139	-13.138	9.849	16.150	1.00	0.00
ATOM	2160	HA	HIS	139	-12.941	12.102	14.432	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.562	11.931	14.603	1.00	0.00



ATOM	2162	2HB	HIS	139	-15.200	10.401	15.395	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.872	12.161	12.085	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.311	8.374	13.711	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.435	10.635	10.133	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.378	8.321	11.123	1.00	0.00
ATOM	2167	N	SER	140	-13.929	12.692	17.467	1.00	0.00
ATOM	2168	CA	SER	140	-14.222	13.762	18.413	1.00	0.00
ATOM	2171	C	SER	140	-12.951	14.449	18.920	1.00	0.00
ATOM	2172	O	SER	140	-13.024	15.472	19.598	1.00	0.00
ATOM	2169	CB	SER	140	-15.033	13.208	19.585	1.00	0.00
ATOM	2170	OG	SER	140	-16.018	12.291	19.126	1.00	0.00
ATOM	2173	H	SER	140	-13.813	11.772	17.799	1.00	0.00
ATOM	2174	HA	SER	140	-14.818	14.495	17.895	1.00	0.00
ATOM	2175	1HB	SER	140	-15.524	14.019	20.101	1.00	0.00
ATOM	2176	2HB	SER	140	-14.370	12.695	20.267	1.00	0.00
ATOM	2177	HG	SER	140	-15.631	11.404	19.078	1.00	0.00
ATOM	2178	N	SER	141	-11.793	13.885	18.598	1.00	0.00
ATOM	2179	CA	SER	141	-10.526	14.456	19.038	1.00	0.00
ATOM	2182	C	SER	141	-9.965	15.433	18.013	1.00	0.00
ATOM	2183	O	SER	141	-9.708	16.597	18.320	1.00	0.00
ATOM	2180	CB	SER	141	-9.509	13.349	19.317	1.00	0.00
ATOM	2181	OG	SER	141	-8.984	13.454	20.627	1.00	0.00
ATOM	2184	H	SER	141	-11.790	13.061	18.066	1.00	0.00
ATOM	2185	HA	SER	141	-10.713	14.991	19.946	1.00	0.00
ATOM	2186	1HB	SER	141	-8.693	13.425	18.611	1.00	0.00
ATOM	2187	2HB	SER	141	-9.988	12.388	19.209	1.00	0.00
ATOM	2188	HG	SER	141	-8.150	13.933	20.596	1.00	0.00
ATOM	2189	N	GLY	142	-9.773	14.946	16.802	1.00	0.00
ATOM	2190	CA	GLY	142	-9.229	15.772	15.740	1.00	0.00
ATOM	2191	C	GLY	142	-9.260	15.054	14.415	1.00	0.00
ATOM	2192	O	GLY	142	-9.086	15.657	13.357	1.00	0.00
ATOM	2193	H	GLY	142	-10.000	14.014	16.626	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.205	16.019	15.980	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.802	16.682	15.663	1.00	0.00
ATOM	2196	N	GLY	143	-9.498	13.757	14.478	1.00	0.00
ATOM	2197	CA	GLY	143	-9.564	12.959	13.277	1.00	0.00
ATOM	2198	C	GLY	143	-8.244	12.336	12.908	1.00	0.00
ATOM	2199	O	GLY	143	-7.202	12.696	13.452	1.00	0.00
ATOM	2200	H	GLY	143	-9.641	13.337	15.357	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.886	13.584	12.464	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.281	12.177	13.416	1.00	0.00
ATOM	2203	N	TRP	144	-8.293	11.409	11.963	1.00	0.00
ATOM	2204	CA	TRP	144	-7.097	10.734	11.490	1.00	0.00
ATOM	2215	C	TRP	144	-6.149	11.755	10.875	1.00	0.00
ATOM	2216	O	TRP	144	-4.929	11.601	10.918	1.00	0.00
ATOM	2205	CB	TRP	144	-7.474	9.655	10.470	1.00	0.00
ATOM	2206	CG	TRP	144	-8.160	8.473	11.091	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.506	8.220	11.128	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.530	7.384	11.770	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.745	7.039	11.797	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.548	6.508	12.194	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.202	7.066	12.059	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.275	5.335	12.891	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.935	5.903	12.751	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.967	5.049	13.160	1.00	0.00
ATOM	2217	H	TRP	144	-9.161	11.182	11.561	1.00	0.00
ATOM	2218	HA	TRP	144	-6.615	10.270	12.339	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.579	9.303	9.979	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.140	10.080	9.734	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.260	8.863	10.699	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.632	6.639	11.959	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.392	7.713	11.750	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.059	4.666	13.214	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.911	5.637	12.985	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.709	4.150	13.701	1.00	0.00
ATOM	2227	N	ALA	145	-6.732	12.818	10.330	1.00	0.00
ATOM	2228	CA	ALA	145	-5.966	13.894	9.724	1.00	0.00
ATOM	2230	C	ALA	145	-5.090	14.595	10.757	1.00	0.00
ATOM	2231	O	ALA	145	-3.970	15.006	10.448	1.00	0.00
ATOM	2229	CB	ALA	145	-6.897	14.894	9.053	1.00	0.00
ATOM	2232	H	ALA	145	-7.709	12.885	10.353	1.00	0.00
ATOM	2233	HA	ALA	145	-5.333	13.462	8.962	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.404	15.323	8.192	1.00	0.00



ATOM	2235	2HB	ALA	145	-7.147	15.677	9.751	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.799	14.391	8.738	1.00	0.00
ATOM	2237	N	GLU	146	-5.589	14.717	11.992	1.00	0.00
ATOM	2238	CA	GLU	146	-4.819	15.363	13.055	1.00	0.00
ATOM	2244	C	GLU	146	-3.553	14.550	13.337	1.00	0.00
ATOM	2245	O	GLU	146	-2.449	15.090	13.403	1.00	0.00
ATOM	2239	CB	GLU	146	-5.675	15.523	14.330	1.00	0.00
ATOM	2240	CG	GLU	146	-4.922	15.264	15.630	1.00	0.00
ATOM	2241	CD	GLU	146	-5.385	16.145	16.777	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.459	17.378	16.590	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.663	15.603	17.870	1.00	0.00
ATOM	2246	H	GLU	146	-6.491	14.356	12.194	1.00	0.00
ATOM	2247	HA	GLU	146	-4.528	16.341	12.701	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.510	14.837	14.281	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.058	16.531	14.364	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.871	15.444	15.461	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.067	14.233	15.913	1.00	0.00
ATOM	2252	N	PHE	147	-3.732	13.245	13.475	1.00	0.00
ATOM	2253	CA	PHE	147	-2.631	12.324	13.734	1.00	0.00
ATOM	2261	C	PHE	147	-1.638	12.313	12.571	1.00	0.00
ATOM	2262	O	PHE	147	-0.427	12.238	12.780	1.00	0.00
ATOM	2254	CB	PHE	147	-3.202	10.922	13.974	1.00	0.00
ATOM	2255	CG	PHE	147	-2.171	9.857	14.200	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.080	10.087	15.022	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.296	8.623	13.586	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.133	9.106	15.223	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.350	7.639	13.783	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.267	7.882	14.602	1.00	0.00
ATOM	2263	H	PHE	147	-4.641	12.885	13.393	1.00	0.00
ATOM	2264	HA	PHE	147	-2.115	12.657	14.628	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.792	10.634	13.115	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.841	10.949	14.843	1.00	0.00
ATOM	2267	HD1	PHE	147	-3.143	8.435	12.944	1.00	0.00
ATOM	2268	HD2	PHE	147	-0.974	11.046	15.509	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.458	6.681	13.298	1.00	0.00
ATOM	2270	HE2	PHE	147	0.716	9.296	15.865	1.00	0.00
ATOM	2271	HZ	PHE	147	0.478	7.116	14.753	1.00	0.00
ATOM	2272	N	THR	148	-2.152	12.394	11.350	1.00	0.00
ATOM	2273	CA	THR	148	-1.302	12.395	10.165	1.00	0.00
ATOM	2277	C	THR	148	-0.436	13.649	10.106	1.00	0.00
ATOM	2278	O	THR	148	0.657	13.630	9.552	1.00	0.00
ATOM	2274	CB	THR	148	-2.142	12.259	8.883	1.00	0.00
ATOM	2275	OG1	THR	148	-3.114	11.225	9.064	1.00	0.00
ATOM	2276	CG2	THR	148	-1.272	11.914	7.685	1.00	0.00
ATOM	2279	H	THR	148	-3.124	12.455	11.244	1.00	0.00
ATOM	2280	HA	THR	148	-0.650	11.535	10.232	1.00	0.00
ATOM	2281	HB	THR	148	-2.646	13.196	8.692	1.00	0.00
ATOM	2282	HG1	THR	148	-3.814	11.533	9.656	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.529	10.926	7.329	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.232	11.930	7.978	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.437	12.635	6.899	1.00	0.00
ATOM	2286	N	ALA	149	-0.910	14.729	10.705	1.00	0.00
ATOM	2287	CA	ALA	149	-0.140	15.960	10.737	1.00	0.00
ATOM	2289	C	ALA	149	0.867	15.892	11.878	1.00	0.00
ATOM	2290	O	ALA	149	1.983	16.396	11.777	1.00	0.00
ATOM	2288	CB	ALA	149	-1.058	17.162	10.901	1.00	0.00
ATOM	2291	H	ALA	149	-1.781	14.691	11.157	1.00	0.00
ATOM	2292	HA	ALA	149	0.390	16.053	9.800	1.00	0.00
ATOM	2293	1HB	ALA	149	-2.050	16.824	11.160	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.097	17.715	9.974	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.677	17.800	11.685	1.00	0.00
ATOM	2296	N	LEU	150	0.450	15.246	12.959	1.00	0.00
ATOM	2297	CA	LEU	150	1.280	15.079	14.144	1.00	0.00
ATOM	2302	C	LEU	150	2.491	14.194	13.862	1.00	0.00
ATOM	2303	O	LEU	150	3.589	14.449	14.364	1.00	0.00
ATOM	2298	CB	LEU	150	0.446	14.463	15.271	1.00	0.00
ATOM	2299	CG	LEU	150	-0.125	15.456	16.281	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.557	15.093	16.637	1.00	0.00
ATOM	2301	CD2	LEU	150	0.732	15.500	17.534	1.00	0.00
ATOM	2304	H	LEU	150	-0.455	14.865	12.960	1.00	0.00
ATOM	2305	HA	LEU	150	1.621	16.055	14.453	1.00	0.00
ATOM	2306	1HB	LEU	150	1.057	13.756	15.802	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.372	13.928	14.824	1.00	0.00



ATOM	2308	HG	LEU	150	-0.128	16.441	15.843	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.558	14.397	17.462	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.036	14.639	15.782	1.00	0.00
ATOM	2311	3HD1	LEU	150	-2.095	15.986	16.918	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.492	14.735	17.479	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.111	15.329	18.401	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.203	16.468	17.614	1.00	0.00
ATOM	2315	N	TYR	151	2.282	13.138	13.085	1.00	0.00
ATOM	2316	CA	TYR	151	3.354	12.201	12.772	1.00	0.00
ATOM	2325	C	TYR	151	3.685	12.177	11.283	1.00	0.00
ATOM	2326	O	TYR	151	4.269	11.216	10.793	1.00	0.00
ATOM	2317	CB	TYR	151	2.965	10.796	13.233	1.00	0.00
ATOM	2318	CG	TYR	151	3.648	10.372	14.511	1.00	0.00
ATOM	2319	CD1	TYR	151	4.971	9.955	14.503	1.00	0.00
ATOM	2320	CD2	TYR	151	2.974	10.397	15.724	1.00	0.00
ATOM	2321	CE1	TYR	151	5.604	9.575	15.668	1.00	0.00
ATOM	2322	CE2	TYR	151	3.599	10.015	16.894	1.00	0.00
ATOM	2323	CZ	TYR	151	4.914	9.606	16.861	1.00	0.00
ATOM	2324	OH	TYR	151	5.547	9.240	18.023	1.00	0.00
ATOM	2327	H	TYR	151	1.378	12.971	12.732	1.00	0.00
ATOM	2328	HA	TYR	151	4.232	12.513	13.316	1.00	0.00
ATOM	2329	1HB	TYR	151	3.229	10.085	12.463	1.00	0.00
ATOM	2330	2HB	TYR	151	1.899	10.760	13.400	1.00	0.00
ATOM	2331	HD1	TYR	151	5.509	9.931	13.567	1.00	0.00
ATOM	2332	HD2	TYR	151	1.942	10.716	15.745	1.00	0.00
ATOM	2333	HE1	TYR	151	6.635	9.253	15.642	1.00	0.00
ATOM	2334	HE2	TYR	151	3.058	10.040	17.829	1.00	0.00
ATOM	2335	HH	TYR	151	6.483	9.494	17.968	1.00	0.00
ATOM	2336	N	GLY	152	3.315	13.223	10.563	1.00	0.00
ATOM	2337	CA	GLY	152	3.598	13.263	9.145	1.00	0.00
ATOM	2338	C	GLY	152	4.702	14.234	8.805	1.00	0.00
ATOM	2339	O	GLY	152	5.692	14.343	9.529	1.00	0.00
ATOM	2340	H	GLY	152	2.850	13.970	10.988	1.00	0.00
ATOM	2341	1HA	GLY	152	2.701	13.553	8.618	1.00	0.00
ATOM	2342	2HA	GLY	152	3.891	12.274	8.820	1.00	0.00
ATOM	2343	N	ASP	153	4.526	14.941	7.702	1.00	0.00
ATOM	2344	CA	ASP	153	5.514	15.917	7.255	1.00	0.00
ATOM	2349	C	ASP	153	5.298	17.246	7.957	1.00	0.00
ATOM	2350	O	ASP	153	6.251	17.960	8.272	1.00	0.00
ATOM	2345	CB	ASP	153	5.436	16.109	5.742	1.00	0.00
ATOM	2346	CG	ASP	153	6.718	16.683	5.175	1.00	0.00
ATOM	2347	OD1	ASP	153	7.637	15.897	4.865	1.00	0.00
ATOM	2348	OD2	ASP	153	6.815	17.918	5.036	1.00	0.00
ATOM	2351	H	ASP	153	3.713	14.805	7.178	1.00	0.00
ATOM	2352	HA	ASP	153	6.493	15.541	7.513	1.00	0.00
ATOM	2353	1HB	ASP	153	4.626	16.784	5.512	1.00	0.00
ATOM	2354	2HB	ASP	153	5.251	15.155	5.274	1.00	0.00
ATOM	2355	N	GLY	154	4.037	17.565	8.215	1.00	0.00
ATOM	2356	CA	GLY	154	3.702	18.802	8.894	1.00	0.00
ATOM	2357	C	GLY	154	3.820	18.674	10.398	1.00	0.00
ATOM	2358	O	GLY	154	2.973	19.163	11.141	1.00	0.00
ATOM	2359	H	GLY	154	3.326	16.949	7.953	1.00	0.00
ATOM	2360	1HA	GLY	154	2.688	19.076	8.645	1.00	0.00
ATOM	2361	2HA	GLY	154	4.370	19.580	8.554	1.00	0.00
ATOM	2362	N	ALA	155	4.877	18.014	10.844	1.00	0.00
ATOM	2363	CA	ALA	155	5.119	17.815	12.260	1.00	0.00
ATOM	2365	C	ALA	155	5.847	19.013	12.851	1.00	0.00
ATOM	2366	O	ALA	155	7.014	18.921	13.231	1.00	0.00
ATOM	2364	CB	ALA	155	5.916	16.538	12.485	1.00	0.00
ATOM	2367	H	ALA	155	5.517	17.655	10.197	1.00	0.00
ATOM	2368	HA	ALA	155	4.163	17.708	12.751	1.00	0.00
ATOM	2369	1HB	ALA	155	5.985	15.988	11.558	1.00	0.00
ATOM	2370	2HB	ALA	155	5.419	15.930	13.227	1.00	0.00
ATOM	2371	3HB	ALA	155	6.908	16.789	12.830	1.00	0.00
ATOM	2372	N	LEU	156	5.149	20.140	12.910	1.00	0.00
ATOM	2373	CA	LEU	156	5.702	21.374	13.438	1.00	0.00
ATOM	2378	C	LEU	156	6.045	21.238	14.920	1.00	0.00
ATOM	2379	O	LEU	156	5.737	20.224	15.549	1.00	0.00
ATOM	2374	CB	LEU	156	4.705	22.517	13.233	1.00	0.00
ATOM	2375	CG	LEU	156	3.291	22.269	13.763	1.00	0.00
ATOM	2376	CD1	LEU	156	2.758	23.522	14.432	1.00	0.00
ATOM	2377	CD2	LEU	156	2.361	21.835	12.639	1.00	0.00
ATOM	2380	H	LEU	156	4.229	20.144	12.575	1.00	0.00



ATOM	2381	HA	LEU	156	6.604	21.597	12.891	1.00	0.00
ATOM	2382	1HB	LEU	156	4.636	22.720	12.180	1.00	0.00
ATOM	2383	2HB	LEU	156	5.095	23.388	13.721	1.00	0.00
ATOM	2384	HG	LEU	156	3.322	21.480	14.501	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.577	24.194	14.643	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.266	23.253	15.356	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.051	24.009	13.776	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.564	22.422	11.755	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.335	21.983	12.943	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.524	20.789	12.421	1.00	0.00
ATOM	2391	N	GLU	157	6.688	22.269	15.466	1.00	0.00
ATOM	2392	CA	GLU	157	7.093	22.284	16.873	1.00	0.00
ATOM	2398	C	GLU	157	5.936	21.907	17.794	1.00	0.00
ATOM	2399	O	GLU	157	6.123	21.185	18.774	1.00	0.00
ATOM	2393	CB	GLU	157	7.632	23.661	17.275	1.00	0.00
ATOM	2394	CG	GLU	157	8.069	24.529	16.105	1.00	0.00
ATOM	2395	CD	GLU	157	9.439	24.156	15.571	1.00	0.00
ATOM	2396	OE1	GLU	157	9.979	23.112	15.980	1.00	0.00
ATOM	2397	OE2	GLU	157	9.972	24.903	14.723	1.00	0.00
ATOM	2400	H	GLU	157	6.905	23.042	14.902	1.00	0.00
ATOM	2401	HA	GLU	157	7.879	21.557	16.996	1.00	0.00
ATOM	2402	1HB	GLU	157	8.482	23.524	17.929	1.00	0.00
ATOM	2403	2HB	GLU	157	6.861	24.187	17.813	1.00	0.00
ATOM	2404	1HG	GLU	157	8.095	25.560	16.429	1.00	0.00
ATOM	2405	2HG	GLU	157	7.350	24.424	15.307	1.00	0.00
ATOM	2406	N	GLU	158	4.742	22.389	17.464	1.00	0.00
ATOM	2407	CA	GLU	158	3.554	22.099	18.259	1.00	0.00
ATOM	2413	C	GLU	158	3.241	20.609	18.243	1.00	0.00
ATOM	2414	O	GLU	158	3.081	19.990	19.290	1.00	0.00
ATOM	2408	CB	GLU	158	2.351	22.876	17.728	1.00	0.00
ATOM	2409	CG	GLU	158	2.118	24.200	18.430	1.00	0.00
ATOM	2410	CD	GLU	158	1.219	24.055	19.636	1.00	0.00
ATOM	2411	OE1	GLU	158	1.696	23.559	20.676	1.00	0.00
ATOM	2412	OE2	GLU	158	0.035	24.439	19.551	1.00	0.00
ATOM	2415	H	GLU	158	4.659	22.949	16.661	1.00	0.00
ATOM	2416	HA	GLU	158	3.751	22.404	19.275	1.00	0.00
ATOM	2417	1HB	GLU	158	1.467	22.268	17.854	1.00	0.00
ATOM	2418	2HB	GLU	158	2.497	23.069	16.678	1.00	0.00
ATOM	2419	1HG	GLU	158	1.658	24.886	17.735	1.00	0.00
ATOM	2420	2HG	GLU	158	3.070	24.596	18.752	1.00	0.00
ATOM	2421	N	ALA	159	3.159	20.044	17.045	1.00	0.00
ATOM	2422	CA	ALA	159	2.861	18.627	16.879	1.00	0.00
ATOM	2424	C	ALA	159	3.927	17.751	17.530	1.00	0.00
ATOM	2425	O	ALA	159	3.618	16.718	18.123	1.00	0.00
ATOM	2423	CB	ALA	159	2.731	18.290	15.401	1.00	0.00
ATOM	2426	H	ALA	159	3.302	20.595	16.250	1.00	0.00
ATOM	2427	HA	ALA	159	1.910	18.433	17.352	1.00	0.00
ATOM	2428	1HB	ALA	159	1.757	17.862	15.213	1.00	0.00
ATOM	2429	2HB	ALA	159	3.495	17.578	15.126	1.00	0.00
ATOM	2430	3HB	ALA	159	2.850	19.189	14.814	1.00	0.00
ATOM	2431	N	ARG	160	5.179	18.168	17.411	1.00	0.00
ATOM	2432	CA	ARG	160	6.298	17.428	17.976	1.00	0.00
ATOM	2440	C	ARG	160	6.162	17.279	19.491	1.00	0.00
ATOM	2441	O	ARG	160	6.156	16.162	20.014	1.00	0.00
ATOM	2433	CB	ARG	160	7.618	18.121	17.634	1.00	0.00
ATOM	2434	CG	ARG	160	8.145	17.777	16.248	1.00	0.00
ATOM	2435	CD	ARG	160	9.611	18.143	16.102	1.00	0.00
ATOM	2436	NE	ARG	160	9.794	19.534	15.689	1.00	0.00
ATOM	2437	CZ	ARG	160	9.938	19.927	14.420	1.00	0.00
ATOM	2438	NH1	ARG	160	9.962	19.034	13.434	1.00	0.00
ATOM	2439	NH2	ARG	160	10.075	21.214	14.141	1.00	0.00
ATOM	2442	H	ARG	160	5.356	19.001	16.921	1.00	0.00
ATOM	2443	HA	ARG	160	6.297	16.443	17.531	1.00	0.00
ATOM	2444	1HB	ARG	160	8.362	17.833	18.361	1.00	0.00
ATOM	2445	2HB	ARG	160	7.472	19.190	17.686	1.00	0.00
ATOM	2446	1HG	ARG	160	7.572	18.320	15.509	1.00	0.00
ATOM	2447	2HG	ARG	160	8.033	16.716	16.085	1.00	0.00
ATOM	2448	1HD	ARG	160	10.058	17.496	15.362	1.00	0.00
ATOM	2449	2HD	ARG	160	10.102	17.994	17.053	1.00	0.00
ATOM	2450	HE	ARG	160	9.806	20.216	16.399	1.00	0.00
ATOM	2451	1HH1	ARG	160	9.872	18.057	13.632	1.00	0.00
ATOM	2452	2HH1	ARG	160	10.073	19.335	12.479	1.00	0.00
ATOM	2453	1HH2	ARG	160	10.075	21.902	14.887	1.00	0.00



ATOM	2454	2HH2	ARG	160	10.173	21.520	13.186	1.00	0.00
ATOM	2455	N	ARG	161	6.053	18.401	20.193	1.00	0.00
ATOM	2456	CA	ARG	161	5.926	18.375	21.648	1.00	0.00
ATOM	2464	C	ARG	161	4.594	17.775	22.084	1.00	0.00
ATOM	2465	O	ARG	161	4.490	17.195	23.165	1.00	0.00
ATOM	2457	CB	ARG	161	6.080	19.777	22.238	1.00	0.00
ATOM	2458	CG	ARG	161	5.052	20.772	21.737	1.00	0.00
ATOM	2459	CD	ARG	161	4.745	21.833	22.784	1.00	0.00
ATOM	2460	NE	ARG	161	3.982	22.953	22.233	1.00	0.00
ATOM	2461	CZ	ARG	161	4.229	24.235	22.497	1.00	0.00
ATOM	2462	NH1	ARG	161	5.208	24.579	23.326	1.00	0.00
ATOM	2463	NH2	ARG	161	3.476	25.171	21.937	1.00	0.00
ATOM	2466	H	ARG	161	6.065	19.266	19.725	1.00	0.00
ATOM	2467	HA	ARG	161	6.720	17.760	22.025	1.00	0.00
ATOM	2468	1HB	ARG	161	7.064	20.150	21.992	1.00	0.00
ATOM	2469	2HB	ARG	161	5.990	19.710	23.312	1.00	0.00
ATOM	2470	1HG	ARG	161	4.140	20.244	21.493	1.00	0.00
ATOM	2471	2HG	ARG	161	5.441	21.245	20.852	1.00	0.00
ATOM	2472	1HD	ARG	161	5.678	22.206	23.184	1.00	0.00
ATOM	2473	2HD	ARG	161	4.171	21.378	23.576	1.00	0.00
ATOM	2474	HE	ARG	161	3.232	22.735	21.627	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.772	23.868	23.769	1.00	0.00
ATOM	2476	2HH1	ARG	161	5.393	25.551	23.519	1.00	0.00
ATOM	2477	1HH2	ARG	161	2.726	24.905	21.320	1.00	0.00
ATOM	2478	2HH2	ARG	161	3.642	26.149	22.130	1.00	0.00
ATOM	2479	N	LEU	162	3.575	17.927	21.251	1.00	0.00
ATOM	2480	CA	LEU	162	2.252	17.416	21.568	1.00	0.00
ATOM	2485	C	LEU	162	2.210	15.895	21.553	1.00	0.00
ATOM	2486	O	LEU	162	1.660	15.288	22.467	1.00	0.00
ATOM	2481	CB	LEU	162	1.210	17.971	20.597	1.00	0.00
ATOM	2482	CG	LEU	162	-0.206	18.087	21.165	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.355	19.371	21.967	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.234	18.032	20.043	1.00	0.00
ATOM	2487	H	LEU	162	3.712	18.411	20.408	1.00	0.00
ATOM	2488	HA	LEU	162	2.008	17.749	22.566	1.00	0.00
ATOM	2489	1HB	LEU	162	1.174	17.327	19.732	1.00	0.00
ATOM	2490	2HB	LEU	162	1.531	18.954	20.282	1.00	0.00
ATOM	2491	HG	LEU	162	-0.391	17.255	21.829	1.00	0.00
ATOM	2492	1HD1	LEU	162	0.604	19.865	22.036	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.709	19.136	22.960	1.00	0.00
ATOM	2494	3HD1	LEU	162	-1.061	20.023	21.477	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.350	19.016	19.612	1.00	0.00
ATOM	2496	2HD2	LEU	162	-2.182	17.699	20.438	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.900	17.344	19.281	1.00	0.00
ATOM	2498	N	ARG	163	2.773	15.273	20.521	1.00	0.00
ATOM	2499	CA	ARG	163	2.750	13.815	20.443	1.00	0.00
ATOM	2507	C	ARG	163	3.635	13.187	21.516	1.00	0.00
ATOM	2508	O	ARG	163	3.274	12.160	22.090	1.00	0.00
ATOM	2500	CB	ARG	163	3.132	13.309	19.048	1.00	0.00
ATOM	2501	CG	ARG	163	4.505	13.736	18.559	1.00	0.00
ATOM	2502	CD	ARG	163	4.702	13.343	17.105	1.00	0.00
ATOM	2503	NE	ARG	163	6.000	12.706	16.877	1.00	0.00
ATOM	2504	CZ	ARG	163	6.732	12.867	15.776	1.00	0.00
ATOM	2505	NH1	ARG	163	6.302	13.643	14.787	1.00	0.00
ATOM	2506	NH2	ARG	163	7.884	12.221	15.655	1.00	0.00
ATOM	2509	H	ARG	163	3.194	15.799	19.801	1.00	0.00
ATOM	2510	HA	ARG	163	1.732	13.512	20.644	1.00	0.00
ATOM	2511	1HB	ARG	163	2.397	13.667	18.341	1.00	0.00
ATOM	2512	2HB	ARG	163	3.104	12.230	19.056	1.00	0.00
ATOM	2513	1HG	ARG	163	5.260	13.252	19.162	1.00	0.00
ATOM	2514	2HG	ARG	163	4.594	14.809	18.652	1.00	0.00
ATOM	2515	1HD	ARG	163	4.623	14.227	16.487	1.00	0.00
ATOM	2516	2HD	ARG	163	3.923	12.647	16.831	1.00	0.00
ATOM	2517	HE	ARG	163	6.340	12.109	17.585	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.416	14.115	14.860	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.859	13.759	13.961	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.202	11.607	16.394	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.448	12.340	14.825	1.00	0.00
ATOM	2522	N	GLU	164	4.774	13.806	21.811	1.00	0.00
ATOM	2523	CA	GLU	164	5.660	13.276	22.839	1.00	0.00
ATOM	2529	C	GLU	164	5.035	13.464	24.220	1.00	0.00
ATOM	2530	O	GLU	164	5.036	12.544	25.046	1.00	0.00
ATOM	2524	CB	GLU	164	7.044	13.924	22.764	1.00	0.00



ATOM	2525	CG	GLU	164	8.096	13.010	22.147	1.00	0.00
ATOM	2526	CD	GLU	164	9.517	13.428	22.471	1.00	0.00
ATOM	2527	OE1	GLU	164	9.711	14.533	23.016	1.00	0.00
ATOM	2528	OE2	GLU	164	10.448	12.644	22.179	1.00	0.00
ATOM	2531	H	GLU	164	5.015	14.635	21.341	1.00	0.00
ATOM	2532	HA	GLU	164	5.764	12.215	22.656	1.00	0.00
ATOM	2533	1HB	GLU	164	7.363	14.186	23.761	1.00	0.00
ATOM	2534	2HB	GLU	164	6.978	14.821	22.166	1.00	0.00
ATOM	2535	1HG	GLU	164	7.971	13.015	21.074	1.00	0.00
ATOM	2536	2HG	GLU	164	7.945	12.005	22.518	1.00	0.00
ATOM	2537	N	GLY	165	4.459	14.643	24.458	1.00	0.00
ATOM	2538	CA	GLY	165	3.807	14.900	25.729	1.00	0.00
ATOM	2539	C	GLY	165	2.523	14.107	25.859	1.00	0.00
ATOM	2540	O	GLY	165	1.963	13.976	26.946	1.00	0.00
ATOM	2541	H	GLY	165	4.454	15.335	23.755	1.00	0.00
ATOM	2542	1HA	GLY	165	3.578	15.953	25.804	1.00	0.00
ATOM	2543	2HA	GLY	165	4.478	14.625	26.531	1.00	0.00
ATOM	2544	N	ASN	166	2.070	13.574	24.733	1.00	0.00
ATOM	2545	CA	ASN	166	0.855	12.775	24.676	1.00	0.00
ATOM	2550	C	ASN	166	1.074	11.406	25.295	1.00	0.00
ATOM	2551	O	ASN	166	0.476	11.079	26.316	1.00	0.00
ATOM	2546	CB	ASN	166	0.409	12.605	23.219	1.00	0.00
ATOM	2547	CG	ASN	166	-0.999	12.066	23.087	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.217	10.855	23.074	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.963	12.967	22.971	1.00	0.00
ATOM	2552	H	ASN	166	2.576	13.722	23.907	1.00	0.00
ATOM	2553	HA	ASN	166	0.084	13.292	25.228	1.00	0.00
ATOM	2554	1HB	ASN	166	1.083	11.920	22.724	1.00	0.00
ATOM	2555	2HB	ASN	166	0.452	13.559	22.722	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.715	13.914	22.982	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.891	12.649	22.868	1.00	0.00
ATOM	2558	N	TRP	167	1.932	10.602	24.667	1.00	0.00
ATOM	2559	CA	TRP	167	2.206	9.260	25.162	1.00	0.00
ATOM	2570	C	TRP	167	2.808	9.291	26.555	1.00	0.00
ATOM	2571	O	TRP	167	2.680	8.323	27.298	1.00	0.00
ATOM	2560	CB	TRP	167	3.099	8.454	24.198	1.00	0.00
ATOM	2561	CG	TRP	167	4.450	9.052	23.910	1.00	0.00
ATOM	2562	CD1	TRP	167	4.816	9.722	22.781	1.00	0.00
ATOM	2563	CD2	TRP	167	5.621	9.006	24.742	1.00	0.00
ATOM	2564	NE1	TRP	167	6.130	10.110	22.863	1.00	0.00
ATOM	2565	CE2	TRP	167	6.645	9.685	24.057	1.00	0.00
ATOM	2566	CE3	TRP	167	5.902	8.467	26.002	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.923	9.837	24.588	1.00	0.00
ATOM	2568	CZ3	TRP	167	7.171	8.617	26.527	1.00	0.00
ATOM	2569	CH2	TRP	167	8.166	9.298	25.820	1.00	0.00
ATOM	2572	H	TRP	167	2.377	10.917	23.855	1.00	0.00
ATOM	2573	HA	TRP	167	1.251	8.756	25.231	1.00	0.00
ATOM	2574	1HB	TRP	167	2.580	8.345	23.257	1.00	0.00
ATOM	2575	2HB	TRP	167	3.264	7.475	24.619	1.00	0.00
ATOM	2576	HD1	TRP	167	4.155	9.919	21.949	1.00	0.00
ATOM	2577	HE1	TRP	167	6.619	10.614	22.178	1.00	0.00
ATOM	2578	HE3	TRP	167	5.145	7.937	26.563	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.704	10.359	24.056	1.00	0.00
ATOM	2580	HZ3	TRP	167	7.405	8.206	27.497	1.00	0.00
ATOM	2581	HH2	TRP	167	9.146	9.391	26.267	1.00	0.00
ATOM	2582	N	ALA	168	3.453	10.400	26.910	1.00	0.00
ATOM	2583	CA	ALA	168	4.058	10.539	28.229	1.00	0.00
ATOM	2585	C	ALA	168	3.057	10.176	29.324	1.00	0.00
ATOM	2586	O	ALA	168	3.256	9.212	30.060	1.00	0.00
ATOM	2584	CB	ALA	168	4.575	11.955	28.431	1.00	0.00
ATOM	2587	H	ALA	168	3.520	11.147	26.268	1.00	0.00
ATOM	2588	HA	ALA	168	4.898	9.861	28.283	1.00	0.00
ATOM	2589	1HB	ALA	168	4.326	12.289	29.428	1.00	0.00
ATOM	2590	2HB	ALA	168	4.118	12.612	27.706	1.00	0.00
ATOM	2591	3HB	ALA	168	5.648	11.968	28.304	1.00	0.00
ATOM	2592	N	SER	169	1.993	10.956	29.421	1.00	0.00
ATOM	2593	CA	SER	169	0.953	10.741	30.421	1.00	0.00
ATOM	2596	C	SER	169	-0.143	9.773	29.947	1.00	0.00
ATOM	2597	O	SER	169	-0.875	9.211	30.762	1.00	0.00
ATOM	2594	CB	SER	169	0.335	12.090	30.776	1.00	0.00
ATOM	2595	OG	SER	169	1.267	13.139	30.557	1.00	0.00
ATOM	2598	H	SER	169	1.901	11.714	28.804	1.00	0.00
ATOM	2599	HA	SER	169	1.421	10.327	31.305	1.00	0.00



ATOM	2600	1HB	SER	169	0.041	12.092	31.815	1.00	0.00
ATOM	2601	2HB	SER	169	-0.532	12.262	30.151	1.00	0.00
ATOM	2602	HG	SER	169	1.599	13.453	31.408	1.00	0.00
ATOM	2603	N	VAL	170	-0.283	9.604	28.638	1.00	0.00
ATOM	2604	CA	VAL	170	-1.328	8.743	28.094	1.00	0.00
ATOM	2608	C	VAL	170	-0.941	7.264	28.129	1.00	0.00
ATOM	2609	O	VAL	170	-1.783	6.402	28.371	1.00	0.00
ATOM	2605	CB	VAL	170	-1.708	9.182	26.655	1.00	0.00
ATOM	2606	CG1	VAL	170	-2.133	8.008	25.783	1.00	0.00
ATOM	2607	CG2	VAL	170	-2.808	10.232	26.710	1.00	0.00
ATOM	2610	H	VAL	170	0.308	10.092	28.022	1.00	0.00
ATOM	2611	HA	VAL	170	-2.200	8.872	28.717	1.00	0.00
ATOM	2612	HB	VAL	170	-0.839	9.636	26.203	1.00	0.00
ATOM	2613	1HG1	VAL	170	-2.287	8.350	24.770	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.052	7.591	26.166	1.00	0.00
ATOM	2615	3HG1	VAL	170	-1.362	7.253	25.796	1.00	0.00
ATOM	2616	1HG2	VAL	170	-3.404	10.176	25.811	1.00	0.00
ATOM	2617	2HG2	VAL	170	-2.364	11.214	26.787	1.00	0.00
ATOM	2618	3HG2	VAL	170	-3.435	10.053	27.570	1.00	0.00
ATOM	2619	N	ARG	171	0.323	6.956	27.901	1.00	0.00
ATOM	2620	CA	ARG	171	0.750	5.566	27.924	1.00	0.00
ATOM	2628	C	ARG	171	1.017	5.113	29.354	1.00	0.00
ATOM	2629	O	ARG	171	1.126	3.917	29.623	1.00	0.00
ATOM	2621	CB	ARG	171	1.971	5.348	27.020	1.00	0.00
ATOM	2622	CG	ARG	171	3.308	5.342	27.739	1.00	0.00
ATOM	2623	CD	ARG	171	4.454	5.458	26.750	1.00	0.00
ATOM	2624	NE	ARG	171	5.460	4.415	26.948	1.00	0.00
ATOM	2625	CZ	ARG	171	6.605	4.341	26.267	1.00	0.00
ATOM	2626	NH1	ARG	171	6.889	5.244	25.334	1.00	0.00
ATOM	2627	NH2	ARG	171	7.465	3.362	26.522	1.00	0.00
ATOM	2630	H	ARG	171	0.978	7.668	27.719	1.00	0.00
ATOM	2631	HA	ARG	171	-0.070	4.979	27.537	1.00	0.00
ATOM	2632	1HB	ARG	171	1.994	6.133	26.278	1.00	0.00
ATOM	2633	2HB	ARG	171	1.861	4.400	26.517	1.00	0.00
ATOM	2634	1HG	ARG	171	3.408	4.418	28.290	1.00	0.00
ATOM	2635	2HG	ARG	171	3.344	6.179	28.422	1.00	0.00
ATOM	2636	1HD	ARG	171	4.919	6.425	26.871	1.00	0.00
ATOM	2637	2HD	ARG	171	4.053	5.376	25.749	1.00	0.00
ATOM	2638	HE	ARG	171	5.274	3.735	27.635	1.00	0.00
ATOM	2639	1HH1	ARG	171	6.243	5.985	25.136	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.754	5.196	24.832	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.251	2.673	27.233	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.330	3.304	26.023	1.00	0.00
ATOM	2643	N	THR	172	1.095	6.072	30.271	1.00	0.00
ATOM	2644	CA	THR	172	1.325	5.762	31.672	1.00	0.00
ATOM	2648	C	THR	172	0.009	5.523	32.394	1.00	0.00
ATOM	2649	O	THR	172	-0.054	4.723	33.323	1.00	0.00
ATOM	2645	CB	THR	172	2.105	6.884	32.380	1.00	0.00
ATOM	2646	OG1	THR	172	1.730	8.152	31.839	1.00	0.00
ATOM	2647	CG2	THR	172	3.605	6.684	32.229	1.00	0.00
ATOM	2650	H	THR	172	0.982	7.008	30.002	1.00	0.00
ATOM	2651	HA	THR	172	1.909	4.853	31.721	1.00	0.00
ATOM	2652	HB	THR	172	1.857	6.870	33.430	1.00	0.00
ATOM	2653	HG1	THR	172	2.456	8.499	31.296	1.00	0.00
ATOM	2654	1HG2	THR	172	4.014	7.477	31.620	1.00	0.00
ATOM	2655	2HG2	THR	172	3.796	5.732	31.757	1.00	0.00
ATOM	2656	3HG2	THR	172	4.070	6.701	33.204	1.00	0.00
ATOM	2657	N	VAL	173	-1.047	6.204	31.959	1.00	0.00
ATOM	2658	CA	VAL	173	-2.354	6.028	32.582	1.00	0.00
ATOM	2662	C	VAL	173	-2.883	4.617	32.308	1.00	0.00
ATOM	2663	O	VAL	173	-3.679	4.071	33.069	1.00	0.00
ATOM	2659	CB	VAL	173	-3.362	7.104	32.110	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.867	6.841	30.700	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.523	7.215	33.085	1.00	0.00
ATOM	2664	H	VAL	173	-0.947	6.833	31.202	1.00	0.00
ATOM	2665	HA	VAL	173	-2.221	6.139	33.651	1.00	0.00
ATOM	2666	HB	VAL	173	-2.846	8.048	32.098	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.051	5.784	30.574	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.125	7.166	29.985	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.786	7.387	30.538	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.432	6.886	32.603	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.633	8.243	33.399	1.00	0.00
ATOM	2672	3HG2	VAL	173	-4.329	6.595	33.948	1.00	0.00



ATOM	2673	N	LEU	174	-2.398	4.027	31.225	1.00	0.00
ATOM	2674	CA	LEU	174	-2.781	2.670	30.848	1.00	0.00
ATOM	2679	C	LEU	174	-1.549	1.772	30.786	1.00	0.00
ATOM	2680	O	LEU	174	-1.386	0.980	29.855	1.00	0.00
ATOM	2675	CB	LEU	174	-3.507	2.660	29.501	1.00	0.00
ATOM	2676	CG	LEU	174	-4.253	3.945	29.163	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.171	4.236	27.675	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.703	3.854	29.610	1.00	0.00
ATOM	2681	H	LEU	174	-1.750	4.514	30.675	1.00	0.00
ATOM	2682	HA	LEU	174	-3.447	2.292	31.610	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.219	1.848	29.506	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.779	2.474	28.724	1.00	0.00
ATOM	2685	HG	LEU	174	-3.788	4.764	29.694	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.144	4.157	27.349	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.534	5.235	27.482	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.775	3.523	27.135	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.242	3.189	28.951	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.154	4.835	29.579	1.00	0.00
ATOM	2691	3HD2	LEU	174	-5.745	3.470	30.620	1.00	0.00
ATOM	2692	N	THR	175	-0.675	1.916	31.772	1.00	0.00
ATOM	2693	CA	THR	175	0.553	1.130	31.833	1.00	0.00
ATOM	2697	C	THR	175	0.273	-0.344	32.128	1.00	0.00
ATOM	2698	O	THR	175	0.883	-1.226	31.529	1.00	0.00
ATOM	2694	CB	THR	175	1.500	1.658	32.924	1.00	0.00
ATOM	2695	OG1	THR	175	0.742	2.320	33.944	1.00	0.00
ATOM	2696	CG2	THR	175	2.531	2.609	32.340	1.00	0.00
ATOM	2699	H	THR	175	-0.851	2.583	32.473	1.00	0.00
ATOM	2700	HA	THR	175	1.054	1.211	30.881	1.00	0.00
ATOM	2701	HB	THR	175	2.018	0.818	33.363	1.00	0.00
ATOM	2702	HG1	THR	175	0.689	3.266	33.749	1.00	0.00
ATOM	2703	1HG2	THR	175	3.112	3.046	33.140	1.00	0.00
ATOM	2704	2HG2	THR	175	2.029	3.393	31.792	1.00	0.00
ATOM	2705	3HG2	THR	175	3.186	2.067	31.674	1.00	0.00
ATOM	2706	N	GLY	176	-0.631	-0.598	33.071	1.00	0.00
ATOM	2707	CA	GLY	176	-0.950	-1.966	33.463	1.00	0.00
ATOM	2708	C	GLY	176	-1.860	-2.706	32.497	1.00	0.00
ATOM	2709	O	GLY	176	-2.570	-3.621	32.901	1.00	0.00
ATOM	2710	H	GLY	176	-1.069	0.153	33.527	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.427	-1.939	34.433	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.029	-2.520	33.553	1.00	0.00
ATOM	2713	N	ALA	177	-1.828	-2.331	31.225	1.00	0.00
ATOM	2714	CA	ALA	177	-2.648	-2.984	30.206	1.00	0.00
ATOM	2716	C	ALA	177	-1.911	-4.161	29.583	1.00	0.00
ATOM	2717	O	ALA	177	-2.420	-4.813	28.683	1.00	0.00
ATOM	2715	CB	ALA	177	-3.039	-1.984	29.133	1.00	0.00
ATOM	2718	H	ALA	177	-1.228	-1.603	30.961	1.00	0.00
ATOM	2719	HA	ALA	177	-3.557	-3.350	30.669	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.154	-1.649	28.613	1.00	0.00
ATOM	2721	2HB	ALA	177	-3.531	-1.138	29.590	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.713	-2.456	28.432	1.00	0.00
ATOM	2723	N	VAL	178	-0.707	-4.435	30.065	1.00	0.00
ATOM	2724	CA	VAL	178	0.089	-5.530	29.543	1.00	0.00
ATOM	2728	C	VAL	178	-0.367	-6.864	30.130	1.00	0.00
ATOM	2729	O	VAL	178	0.342	-7.491	30.919	1.00	0.00
ATOM	2725	CB	VAL	178	1.587	-5.326	29.834	1.00	0.00
ATOM	2726	CG1	VAL	178	2.402	-5.587	28.582	1.00	0.00
ATOM	2727	CG2	VAL	178	1.868	-3.928	30.363	1.00	0.00
ATOM	2730	H	VAL	178	-0.343	-3.890	30.785	1.00	0.00
ATOM	2731	HA	VAL	178	-0.045	-5.558	28.472	1.00	0.00
ATOM	2732	HB	VAL	178	1.878	-6.034	30.589	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.441	-5.370	28.777	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.045	-4.955	27.783	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.298	-6.624	28.295	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.731	-3.954	31.012	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.012	-3.573	30.919	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.061	-3.261	29.536	1.00	0.00
ATOM	2739	N	ALA	179	-1.568	-7.274	29.747	1.00	0.00
ATOM	2740	CA	ALA	179	-2.157	-8.519	30.231	1.00	0.00
ATOM	2742	C	ALA	179	-1.842	-9.692	29.306	1.00	0.00
ATOM	2743	O	ALA	179	-2.398	-10.783	29.459	1.00	0.00
ATOM	2741	CB	ALA	179	-3.663	-8.358	30.382	1.00	0.00
ATOM	2744	H	ALA	179	-2.082	-6.711	29.128	1.00	0.00
ATOM	2745	HA	ALA	179	-1.743	-8.723	31.209	1.00	0.00



ATOM	2746	1HB	ALA	179	-4.057	-9.186	30.953	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.121	-8.345	29.405	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.878	-7.432	30.894	1.00	0.00
ATOM	2749	N	LEU	180	-0.950	-9.471	28.350	1.00	0.00
ATOM	2750	CA	LEU	180	-0.569	-10.518	27.410	1.00	0.00
ATOM	2755	C	LEU	180	0.701	-11.217	27.876	1.00	0.00
ATOM	2756	O	LEU	180	0.808	-12.443	27.814	1.00	0.00
ATOM	2751	CB	LEU	180	-0.354	-9.938	26.011	1.00	0.00
ATOM	2752	CG	LEU	180	-1.417	-8.949	25.539	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.926	-8.183	24.323	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.715	-9.673	25.223	1.00	0.00
ATOM	2757	H	LEU	180	-0.536	-8.585	28.275	1.00	0.00
ATOM	2758	HA	LEU	180	-1.372	-11.240	27.371	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.322	-10.757	25.308	1.00	0.00
ATOM	2760	2HB	LEU	180	0.603	-9.437	25.997	1.00	0.00
ATOM	2761	HG	LEU	180	-1.613	-8.236	26.327	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.779	-8.869	23.501	1.00	0.00
ATOM	2763	2HD1	LEU	180	0.011	-7.698	24.557	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.658	-7.440	24.045	1.00	0.00
ATOM	2765	1HD2	LEU	180	-3.540	-9.156	25.689	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.663	-10.684	25.602	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.863	-9.698	24.153	1.00	0.00
ATOM	2768	N	GLY	181	1.662	-10.421	28.325	1.00	0.00
ATOM	2769	CA	GLY	181	2.927	-10.946	28.789	1.00	0.00
ATOM	2770	C	GLY	181	2.804	-11.697	30.095	1.00	0.00
ATOM	2771	O	GLY	181	2.852	-11.100	31.170	1.00	0.00
ATOM	2772	H	GLY	181	1.514	-9.452	28.327	1.00	0.00
ATOM	2773	1HA	GLY	181	3.618	-10.126	28.922	1.00	0.00
ATOM	2774	2HA	GLY	181	3.321	-11.615	28.039	1.00	0.00
ATOM	2775	N	ALA	182	2.653	-13.006	29.995	1.00	0.00
ATOM	2776	CA	ALA	182	2.534	-13.852	31.167	1.00	0.00
ATOM	2778	C	ALA	182	3.914	-14.256	31.663	1.00	0.00
ATOM	2779	O	ALA	182	4.850	-14.388	30.873	1.00	0.00
ATOM	2777	CB	ALA	182	1.703	-15.085	30.848	1.00	0.00
ATOM	2780	H	ALA	182	2.631	-13.416	29.103	1.00	0.00
ATOM	2781	HA	ALA	182	2.030	-13.290	31.940	1.00	0.00
ATOM	2782	1HB	ALA	182	1.109	-15.350	31.710	1.00	0.00
ATOM	2783	2HB	ALA	182	2.360	-15.905	30.597	1.00	0.00
ATOM	2784	3HB	ALA	182	1.053	-14.876	30.012	1.00	0.00
ATOM	2785	N	LEU	183	4.035	-14.454	32.964	1.00	0.00
ATOM	2790	CA	LEU	183	5.302	-14.846	33.557	1.00	0.00
ATOM	2791	C	LEU	183	5.198	-16.249	34.127	1.00	0.00
ATOM	2792	O	LEU	183	4.197	-16.530	34.817	1.00	0.00
ATOM	2786	CB	LEU	183	5.706	-13.861	34.656	1.00	0.00
ATOM	2787	CG	LEU	183	5.965	-12.429	34.183	1.00	0.00
ATOM	2788	CD1	LEU	183	5.478	-11.428	35.219	1.00	0.00
ATOM	2789	CD2	LEU	183	7.444	-12.226	33.892	1.00	0.00
ATOM	2793	OXT	LEU	183	6.105	-17.070	33.872	1.00	0.00
ATOM	2794	H	LEU	183	3.253	-14.340	33.543	1.00	0.00
ATOM	2795	HA	LEU	183	6.051	-14.837	32.779	1.00	0.00
ATOM	2796	1HB	LEU	183	6.606	-14.229	35.125	1.00	0.00
ATOM	2797	2HB	LEU	183	4.919	-13.837	35.396	1.00	0.00
ATOM	2798	HG	LEU	183	5.416	-12.256	33.268	1.00	0.00
ATOM	2799	1HD1	LEU	183	4.582	-11.805	35.691	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.261	-10.486	34.736	1.00	0.00
ATOM	2801	3HD1	LEU	183	6.243	-11.282	35.967	1.00	0.00
ATOM	2802	1HD2	LEU	183	8.021	-12.459	34.775	1.00	0.00
ATOM	2803	2HD2	LEU	183	7.618	-11.198	33.610	1.00	0.00
ATOM	2804	3HD2	LEU	183	7.746	-12.877	33.084	1.00	0.00
ENDMDL									
MODEL									
	14								
ATOM	3	N	GLY	-4	-25.534	-7.879	-28.388	1.00	0.00
ATOM	4	CA	GLY	-4	-24.629	-9.046	-28.463	1.00	0.00
ATOM	1	C	GLY	-4	-24.729	-9.920	-27.232	1.00	0.00
ATOM	2	O	GLY	-4	-25.749	-9.894	-26.545	1.00	0.00
ATOM	5	1HA	GLY	-4	-24.884	-9.635	-29.333	1.00	0.00
ATOM	6	2HA	GLY	-4	-23.612	-8.695	-28.562	1.00	0.00
ATOM	7	1HT	GLY	-4	-26.247	-8.027	-27.648	1.00	0.00
ATOM	8	2HT	GLY	-4	-26.016	-7.740	-29.302	1.00	0.00
ATOM	9	3HT	GLY	-4	-24.987	-7.019	-28.165	1.00	0.00
ATOM	10	N	PRO	-3	-23.683	-10.714	-26.934	1.00	0.00
ATOM	11	CA	PRO	-3	-23.663	-11.617	-25.771	1.00	0.00
ATOM	15	C	PRO	-3	-23.819	-10.881	-24.437	1.00	0.00



ATOM	16	O	PRO	-3	-24.457	-11.391	-23.518	1.00	0.00
ATOM	12	CB	PRO	-3	-22.285	-12.283	-25.853	1.00	0.00
ATOM	13	CG	PRO	-3	-21.856	-12.115	-27.269	1.00	0.00
ATOM	14	CD	PRO	-3	-22.439	-10.807	-27.717	1.00	0.00
ATOM	17	HA	PRO	-3	-24.432	-12.370	-25.849	1.00	0.00
ATOM	18	1HB	PRO	-3	-22.373	-13.327	-25.590	1.00	0.00
ATOM	19	2HB	PRO	-3	-21.605	-11.792	-25.174	1.00	0.00
ATOM	20	1HG	PRO	-3	-22.244	-12.924	-27.870	1.00	0.00
ATOM	21	2HG	PRO	-3	-20.778	-12.085	-27.326	1.00	0.00
ATOM	22	1HD	PRO	-3	-22.650	-10.828	-28.775	1.00	0.00
ATOM	23	2HD	PRO	-3	-21.769	-9.993	-27.478	1.00	0.00
ATOM	24	N	LEU	-2	-23.227	-9.687	-24.349	1.00	0.00
ATOM	25	CA	LEU	-2	-23.289	-8.860	-23.139	1.00	0.00
ATOM	30	C	LEU	-2	-22.566	-9.525	-21.969	1.00	0.00
ATOM	31	O	LEU	-2	-23.197	-10.080	-21.067	1.00	0.00
ATOM	26	CB	LEU	-2	-24.744	-8.549	-22.757	1.00	0.00
ATOM	27	CG	LEU	-2	-25.221	-7.127	-23.069	1.00	0.00
ATOM	28	CD1	LEU	-2	-24.153	-6.103	-22.710	1.00	0.00
ATOM	29	CD2	LEU	-2	-25.608	-7.006	-24.534	1.00	0.00
ATOM	32	H	LEU	-2	-22.732	-9.352	-25.123	1.00	0.00
ATOM	33	HA	LEU	-2	-22.785	-7.931	-23.362	1.00	0.00
ATOM	34	1HB	LEU	-2	-24.857	-8.717	-21.696	1.00	0.00
ATOM	35	2HB	LEU	-2	-25.384	-9.243	-23.282	1.00	0.00
ATOM	36	HG	LEU	-2	-26.097	-6.913	-22.474	1.00	0.00
ATOM	37	1HD1	LEU	-2	-24.624	-5.219	-22.308	1.00	0.00
ATOM	38	2HD1	LEU	-2	-23.593	-5.842	-23.596	1.00	0.00
ATOM	39	3HD1	LEU	-2	-23.486	-6.524	-21.972	1.00	0.00
ATOM	40	1HD2	LEU	-2	-26.147	-6.085	-24.689	1.00	0.00
ATOM	41	2HD2	LEU	-2	-26.234	-7.842	-24.810	1.00	0.00
ATOM	42	3HD2	LEU	-2	-24.716	-7.010	-25.143	1.00	0.00
ATOM	43	N	GLY	-1	-21.241	-9.458	-21.986	1.00	0.00
ATOM	44	CA	GLY	-1	-20.454	-10.051	-20.922	1.00	0.00
ATOM	45	C	GLY	-1	-19.553	-9.042	-20.238	1.00	0.00
ATOM	46	O	GLY	-1	-18.427	-9.361	-19.856	1.00	0.00
ATOM	47	H	GLY	-1	-20.793	-8.998	-22.725	1.00	0.00
ATOM	48	1HA	GLY	-1	-19.843	-10.839	-21.337	1.00	0.00
ATOM	49	2HA	GLY	-1	-21.123	-10.476	-20.189	1.00	0.00
ATOM	50	N	SER	0	-20.043	-7.821	-20.089	1.00	0.00
ATOM	51	CA	SER	0	-19.275	-6.759	-19.457	1.00	0.00
ATOM	54	C	SER	0	-19.244	-6.925	-17.938	1.00	0.00
ATOM	55	O	SER	0	-20.277	-6.851	-17.271	1.00	0.00
ATOM	52	CB	SER	0	-19.878	-5.405	-19.835	1.00	0.00
ATOM	53	OG	SER	0	-21.021	-5.575	-20.664	1.00	0.00
ATOM	56	H	SER	0	-20.944	-7.622	-20.420	1.00	0.00
ATOM	57	HA	SER	0	-18.265	-6.810	-19.835	1.00	0.00
ATOM	58	1HB	SER	0	-19.143	-4.823	-20.371	1.00	0.00
ATOM	59	2HB	SER	0	-20.173	-4.880	-18.940	1.00	0.00
ATOM	60	HG	SER	0	-21.809	-5.266	-20.185	1.00	0.00
ATOM	61	N	MET	1	-18.051	-7.146	-17.396	1.00	0.00
ATOM	62	CA	MET	1	-17.880	-7.322	-15.958	1.00	0.00
ATOM	67	C	MET	1	-17.618	-5.982	-15.277	1.00	0.00
ATOM	68	O	MET	1	-17.353	-4.982	-15.945	1.00	0.00
ATOM	63	CB	MET	1	-16.729	-8.287	-15.670	1.00	0.00
ATOM	64	CG	MET	1	-17.118	-9.750	-15.797	1.00	0.00
ATOM	65	SD	MET	1	-18.158	-10.317	-14.436	1.00	0.00
ATOM	66	CE	MET	1	-17.787	-12.071	-14.447	1.00	0.00
ATOM	69	H	MET	1	-17.263	-7.188	-17.978	1.00	0.00
ATOM	70	HA	MET	1	-18.795	-7.739	-15.565	1.00	0.00
ATOM	71	1HB	MET	1	-16.374	-8.116	-14.665	1.00	0.00
ATOM	72	2HB	MET	1	-15.926	-8.088	-16.366	1.00	0.00
ATOM	73	1HG	MET	1	-16.217	-10.346	-15.817	1.00	0.00
ATOM	74	2HG	MET	1	-17.658	-9.886	-16.722	1.00	0.00
ATOM	75	1HE	MET	1	-16.813	-12.229	-14.883	1.00	0.00
ATOM	76	2HE	MET	1	-18.532	-12.592	-15.031	1.00	0.00
ATOM	77	3HE	MET	1	-17.794	-12.447	-13.435	1.00	0.00
ATOM	78	N	ALA	2	-17.691	-5.969	-13.953	1.00	0.00
ATOM	79	CA	ALA	2	-17.461	-4.751	-13.187	1.00	0.00
ATOM	81	C	ALA	2	-16.314	-4.935	-12.203	1.00	0.00
ATOM	82	O	ALA	2	-16.061	-6.047	-11.733	1.00	0.00
ATOM	80	CB	ALA	2	-18.728	-4.346	-12.450	1.00	0.00
ATOM	83	H	ALA	2	-17.901	-6.799	-13.477	1.00	0.00
ATOM	84	HA	ALA	2	-17.207	-3.962	-13.881	1.00	0.00
ATOM	85	1HB	ALA	2	-19.470	-4.019	-13.163	1.00	0.00



ATOM	86	2HB	ALA	2	-18.505	-3.541	-11.767	1.00	0.00
ATOM	87	3HB	ALA	2	-19.108	-5.193	-11.897	1.00	0.00
ATOM	88	N	THR	3	-15.621	-3.847	-11.898	1.00	0.00
ATOM	89	CA	THR	3	-14.504	-3.882	-10.976	1.00	0.00
ATOM	93	C	THR	3	-14.816	-3.079	-9.712	1.00	0.00
ATOM	94	O	THR	3	-15.284	-1.938	-9.780	1.00	0.00
ATOM	90	CB	THR	3	-13.213	-3.361	-11.649	1.00	0.00
ATOM	91	OG1	THR	3	-13.154	-1.929	-11.592	1.00	0.00
ATOM	92	CG2	THR	3	-13.140	-3.798	-13.106	1.00	0.00
ATOM	95	H	THR	3	-15.863	-2.993	-12.306	1.00	0.00
ATOM	96	HA	THR	3	-14.344	-4.914	-10.696	1.00	0.00
ATOM	97	HB	THR	3	-12.371	-3.769	-11.126	1.00	0.00
ATOM	98	HG1	THR	3	-12.239	-1.646	-11.679	1.00	0.00
ATOM	99	1HG2	THR	3	-12.423	-4.599	-13.206	1.00	0.00
ATOM	100	2HG2	THR	3	-12.835	-2.961	-13.717	1.00	0.00
ATOM	101	3HG2	THR	3	-14.113	-4.142	-13.428	1.00	0.00
ATOM	102	N	PRO	4	-14.583	-3.683	-8.534	1.00	0.00
ATOM	103	CA	PRO	4	-14.847	-3.048	-7.241	1.00	0.00
ATOM	107	C	PRO	4	-13.826	-1.965	-6.910	1.00	0.00
ATOM	108	O	PRO	4	-12.711	-1.964	-7.437	1.00	0.00
ATOM	104	CB	PRO	4	-14.741	-4.202	-6.231	1.00	0.00
ATOM	105	CG	PRO	4	-14.645	-5.451	-7.047	1.00	0.00
ATOM	106	CD	PRO	4	-14.059	-5.042	-8.366	1.00	0.00
ATOM	109	HA	PRO	4	-15.839	-2.626	-7.206	1.00	0.00
ATOM	110	1HB	PRO	4	-15.621	-4.212	-5.605	1.00	0.00
ATOM	111	2HB	PRO	4	-13.863	-4.064	-5.618	1.00	0.00
ATOM	112	1HG	PRO	4	-15.628	-5.872	-7.189	1.00	0.00
ATOM	113	2HG	PRO	4	-13.998	-6.163	-6.555	1.00	0.00
ATOM	114	1HD	PRO	4	-14.408	-5.692	-9.155	1.00	0.00
ATOM	115	2HD	PRO	4	-12.979	-5.041	-8.321	1.00	0.00
ATOM	116	N	ALA	5	-14.210	-1.051	-6.030	1.00	0.00
ATOM	117	CA	ALA	5	-13.331	0.034	-5.622	1.00	0.00
ATOM	119	C	ALA	5	-12.925	-0.121	-4.162	1.00	0.00
ATOM	120	O	ALA	5	-13.778	-0.299	-3.287	1.00	0.00
ATOM	118	CB	ALA	5	-14.012	1.376	-5.841	1.00	0.00
ATOM	121	H	ALA	5	-15.111	-1.111	-5.641	1.00	0.00
ATOM	122	HA	ALA	5	-12.445	-0.002	-6.239	1.00	0.00
ATOM	123	1HB	ALA	5	-13.414	2.160	-5.400	1.00	0.00
ATOM	124	2HB	ALA	5	-14.988	1.365	-5.380	1.00	0.00
ATOM	125	3HB	ALA	5	-14.117	1.558	-6.901	1.00	0.00
ATOM	126	N	SER	6	-11.628	-0.051	-3.901	1.00	0.00
ATOM	127	CA	SER	6	-11.116	-0.175	-2.549	1.00	0.00
ATOM	130	C	SER	6	-11.061	1.193	-1.880	1.00	0.00
ATOM	131	O	SER	6	-10.253	2.043	-2.251	1.00	0.00
ATOM	128	CB	SER	6	-9.723	-0.812	-2.562	1.00	0.00
ATOM	129	OG	SER	6	-9.690	-2.003	-1.788	1.00	0.00
ATOM	132	H	SER	6	-10.997	0.095	-4.639	1.00	0.00
ATOM	133	HA	SER	6	-11.791	-0.810	-1.993	1.00	0.00
ATOM	134	1HB	SER	6	-9.006	-0.113	-2.154	1.00	0.00
ATOM	135	2HB	SER	6	-9.450	-1.052	-3.579	1.00	0.00
ATOM	136	HG	SER	6	-9.322	-2.724	-2.329	1.00	0.00
ATOM	137	N	ALA	7	-11.924	1.404	-0.898	1.00	0.00
ATOM	138	CA	ALA	7	-11.969	2.671	-0.186	1.00	0.00
ATOM	140	C	ALA	7	-10.848	2.741	0.847	1.00	0.00
ATOM	141	O	ALA	7	-10.636	1.788	1.606	1.00	0.00
ATOM	139	CB	ALA	7	-13.324	2.853	0.483	1.00	0.00
ATOM	142	H	ALA	7	-12.549	0.690	-0.648	1.00	0.00
ATOM	143	HA	ALA	7	-11.834	3.466	-0.907	1.00	0.00
ATOM	144	1HB	ALA	7	-13.864	1.919	0.464	1.00	0.00
ATOM	145	2HB	ALA	7	-13.888	3.607	-0.046	1.00	0.00
ATOM	146	3HB	ALA	7	-13.179	3.166	1.507	1.00	0.00
ATOM	147	N	PRO	8	-10.113	3.865	0.883	1.00	0.00
ATOM	148	CA	PRO	8	-8.994	4.079	1.816	1.00	0.00
ATOM	152	C	PRO	8	-9.468	4.332	3.249	1.00	0.00
ATOM	153	O	PRO	8	-9.045	5.284	3.903	1.00	0.00
ATOM	149	CB	PRO	8	-8.286	5.327	1.261	1.00	0.00
ATOM	150	CG	PRO	8	-8.916	5.598	-0.068	1.00	0.00
ATOM	151	CD	PRO	8	-10.298	5.025	0.006	1.00	0.00
ATOM	154	HA	PRO	8	-8.310	3.242	1.810	1.00	0.00
ATOM	155	1HB	PRO	8	-7.230	5.124	1.160	1.00	0.00
ATOM	156	2HB	PRO	8	-8.432	6.154	1.940	1.00	0.00
ATOM	157	1HG	PRO	8	-8.350	5.113	-0.848	1.00	0.00
ATOM	158	2HG	PRO	8	-8.963	6.663	-0.241	1.00	0.00



ATOM	159	1HD	PRO	8	-10.636	4.719	-0.973	1.00	0.00
ATOM	160	2HD	PRO	8	-10.983	5.737	0.442	1.00	0.00
ATOM	161	N	ASP	9	-10.353	3.472	3.724	1.00	0.00
ATOM	162	CA	ASP	9	-10.898	3.585	5.070	1.00	0.00
ATOM	167	C	ASP	9	-10.040	2.808	6.064	1.00	0.00
ATOM	168	O	ASP	9	-8.908	2.426	5.762	1.00	0.00
ATOM	163	CB	ASP	9	-12.338	3.065	5.102	1.00	0.00
ATOM	164	CG	ASP	9	-13.208	3.802	6.105	1.00	0.00
ATOM	165	OD1	ASP	9	-12.949	3.688	7.321	1.00	0.00
ATOM	166	OD2	ASP	9	-14.152	4.494	5.676	1.00	0.00
ATOM	169	H	ASP	9	-10.650	2.736	3.150	1.00	0.00
ATOM	170	HA	ASP	9	-10.893	4.629	5.343	1.00	0.00
ATOM	171	1HB	ASP	9	-12.329	2.016	5.364	1.00	0.00
ATOM	172	2HB	ASP	9	-12.777	3.181	4.122	1.00	0.00
ATOM	173	N	THR	10	-10.597	2.571	7.240	1.00	0.00
ATOM	174	CA	THR	10	-9.927	1.843	8.303	1.00	0.00
ATOM	178	C	THR	10	-9.465	0.469	7.825	1.00	0.00
ATOM	179	O	THR	10	-8.389	0.008	8.190	1.00	0.00
ATOM	175	CB	THR	10	-10.862	1.674	9.512	1.00	0.00
ATOM	176	OG1	THR	10	-12.229	1.700	9.073	1.00	0.00
ATOM	177	CG2	THR	10	-10.630	2.774	10.536	1.00	0.00
ATOM	180	H	THR	10	-11.509	2.904	7.403	1.00	0.00
ATOM	181	HA	THR	10	-9.065	2.417	8.615	1.00	0.00
ATOM	182	HB	THR	10	-10.660	0.720	9.976	1.00	0.00
ATOM	183	HG1	THR	10	-12.460	2.590	8.758	1.00	0.00
ATOM	184	1HG2	THR	10	-10.606	3.730	10.036	1.00	0.00
ATOM	185	2HG2	THR	10	-9.688	2.606	11.038	1.00	0.00
ATOM	186	3HG2	THR	10	-11.431	2.767	11.261	1.00	0.00
ATOM	187	N	ARG	11	-10.285	-0.170	6.995	1.00	0.00
ATOM	188	CA	ARG	11	-9.959	-1.489	6.455	1.00	0.00
ATOM	196	C	ARG	11	-8.692	-1.433	5.609	1.00	0.00
ATOM	197	O	ARG	11	-7.890	-2.362	5.615	1.00	0.00
ATOM	189	CB	ARG	11	-11.124	-2.045	5.623	1.00	0.00
ATOM	190	CG	ARG	11	-11.984	-0.978	4.954	1.00	0.00
ATOM	191	CD	ARG	11	-11.547	-0.711	3.518	1.00	0.00
ATOM	192	NE	ARG	11	-11.346	-1.946	2.759	1.00	0.00
ATOM	193	CZ	ARG	11	-10.738	-2.012	1.572	1.00	0.00
ATOM	194	NH1	ARG	11	-10.281	-0.909	0.987	1.00	0.00
ATOM	195	NH2	ARG	11	-10.590	-3.185	0.966	1.00	0.00
ATOM	198	H	ARG	11	-11.130	0.260	6.739	1.00	0.00
ATOM	199	HA	ARG	11	-9.775	-2.148	7.289	1.00	0.00
ATOM	200	1HB	ARG	11	-11.759	-2.633	6.269	1.00	0.00
ATOM	201	2HB	ARG	11	-10.724	-2.685	4.851	1.00	0.00
ATOM	202	1HG	ARG	11	-11.905	-0.061	5.521	1.00	0.00
ATOM	203	2HG	ARG	11	-13.011	-1.311	4.949	1.00	0.00
ATOM	204	1HD	ARG	11	-10.622	-0.156	3.535	1.00	0.00
ATOM	205	2HD	ARG	11	-12.309	-0.121	3.029	1.00	0.00
ATOM	206	HE	ARG	11	-11.692	-2.784	3.160	1.00	0.00
ATOM	207	1HH1	ARG	11	-10.391	-0.014	1.434	1.00	0.00
ATOM	208	2HH1	ARG	11	-9.825	-0.968	0.093	1.00	0.00
ATOM	209	1HH2	ARG	11	-10.933	-4.028	1.398	1.00	0.00
ATOM	210	2HH2	ARG	11	-10.140	-3.237	0.071	1.00	0.00
ATOM	211	N	ALA	12	-8.503	-0.331	4.902	1.00	0.00
ATOM	212	CA	ALA	12	-7.322	-0.163	4.076	1.00	0.00
ATOM	214	C	ALA	12	-6.129	0.205	4.947	1.00	0.00
ATOM	215	O	ALA	12	-5.006	-0.219	4.695	1.00	0.00
ATOM	213	CB	ALA	12	-7.559	0.898	3.013	1.00	0.00
ATOM	216	H	ALA	12	-9.162	0.392	4.950	1.00	0.00
ATOM	217	HA	ALA	12	-7.123	-1.104	3.581	1.00	0.00
ATOM	218	1HB	ALA	12	-6.706	1.557	2.965	1.00	0.00
ATOM	219	2HB	ALA	12	-8.442	1.470	3.265	1.00	0.00
ATOM	220	3HB	ALA	12	-7.701	0.422	2.054	1.00	0.00
ATOM	221	N	LEU	13	-6.390	0.994	5.983	1.00	0.00
ATOM	222	CA	LEU	13	-5.342	1.420	6.898	1.00	0.00
ATOM	227	C	LEU	13	-4.853	0.254	7.757	1.00	0.00
ATOM	228	O	LEU	13	-3.647	0.079	7.943	1.00	0.00
ATOM	223	CB	LEU	13	-5.841	2.576	7.767	1.00	0.00
ATOM	224	CG	LEU	13	-5.112	2.769	9.094	1.00	0.00
ATOM	225	CD1	LEU	13	-3.870	3.625	8.899	1.00	0.00
ATOM	226	CD2	LEU	13	-6.045	3.399	10.115	1.00	0.00
ATOM	229	H	LEU	13	-7.317	1.300	6.135	1.00	0.00
ATOM	230	HA	LEU	13	-4.515	1.771	6.300	1.00	0.00
ATOM	231	1HB	LEU	13	-6.888	2.417	7.975	1.00	0.00



ATOM	232	2HB	LEU	13	-5.741	3.489	7.194	1.00	0.00
ATOM	233	HG	LEU	13	-4.799	1.806	9.472	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.251	3.573	9.783	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.163	4.651	8.725	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.313	3.261	8.048	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.884	2.943	11.080	1.00	0.00
ATOM	238	2HD2	LEU	13	-7.069	3.245	9.809	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.845	4.459	10.180	1.00	0.00
ATOM	240	N	VAL	14	-5.783	-0.556	8.263	1.00	0.00
ATOM	241	CA	VAL	14	-5.415	-1.707	9.079	1.00	0.00
ATOM	245	C	VAL	14	-4.655	-2.719	8.223	1.00	0.00
ATOM	246	O	VAL	14	-3.717	-3.370	8.692	1.00	0.00
ATOM	242	CB	VAL	14	-6.646	-2.381	9.756	1.00	0.00
ATOM	243	CG1	VAL	14	-7.501	-3.147	8.755	1.00	0.00
ATOM	244	CG2	VAL	14	-6.198	-3.300	10.885	1.00	0.00
ATOM	247	H	VAL	14	-6.732	-0.379	8.076	1.00	0.00
ATOM	248	HA	VAL	14	-4.753	-1.352	9.857	1.00	0.00
ATOM	249	HB	VAL	14	-7.261	-1.605	10.188	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.299	-3.653	9.277	1.00	0.00
ATOM	251	2HG1	VAL	14	-6.890	-3.874	8.240	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.921	-2.457	8.037	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.034	-3.898	11.215	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.832	-2.705	11.710	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.409	-3.948	10.531	1.00	0.00
ATOM	256	N	ALA	15	-5.049	-2.828	6.956	1.00	0.00
ATOM	257	CA	ALA	15	-4.395	-3.740	6.029	1.00	0.00
ATOM	259	C	ALA	15	-3.011	-3.224	5.644	1.00	0.00
ATOM	260	O	ALA	15	-2.152	-3.997	5.227	1.00	0.00
ATOM	258	CB	ALA	15	-5.250	-3.947	4.788	1.00	0.00
ATOM	261	H	ALA	15	-5.798	-2.271	6.637	1.00	0.00
ATOM	262	HA	ALA	15	-4.286	-4.692	6.526	1.00	0.00
ATOM	263	1HB	ALA	15	-6.183	-3.415	4.899	1.00	0.00
ATOM	264	2HB	ALA	15	-5.449	-5.002	4.660	1.00	0.00
ATOM	265	3HB	ALA	15	-4.724	-3.573	3.921	1.00	0.00
ATOM	266	N	ASP	16	-2.804	-1.919	5.785	1.00	0.00
ATOM	267	CA	ASP	16	-1.521	-1.304	5.449	1.00	0.00
ATOM	272	C	ASP	16	-0.489	-1.551	6.536	1.00	0.00
ATOM	273	O	ASP	16	0.525	-2.204	6.302	1.00	0.00
ATOM	268	CB	ASP	16	-1.675	0.202	5.246	1.00	0.00
ATOM	269	CG	ASP	16	-0.339	0.894	5.013	1.00	0.00
ATOM	270	OD1	ASP	16	0.373	0.510	4.066	1.00	0.00
ATOM	271	OD2	ASP	16	-0.006	1.843	5.760	1.00	0.00
ATOM	274	H	ASP	16	-3.531	-1.352	6.121	1.00	0.00
ATOM	275	HA	ASP	16	-1.173	-1.746	4.529	1.00	0.00
ATOM	276	1HB	ASP	16	-2.134	0.632	6.126	1.00	0.00
ATOM	277	2HB	ASP	16	-2.306	0.381	4.390	1.00	0.00
ATOM	278	N	PHE	17	-0.752	-1.007	7.717	1.00	0.00
ATOM	279	CA	PHE	17	0.158	-1.139	8.850	1.00	0.00
ATOM	287	C	PHE	17	0.473	-2.596	9.156	1.00	0.00
ATOM	288	O	PHE	17	1.638	-2.981	9.243	1.00	0.00
ATOM	280	CB	PHE	17	-0.426	-0.467	10.094	1.00	0.00
ATOM	281	CG	PHE	17	0.623	-0.053	11.086	1.00	0.00
ATOM	282	CD1	PHE	17	1.693	0.739	10.696	1.00	0.00
ATOM	283	CD2	PHE	17	0.544	-0.462	12.406	1.00	0.00
ATOM	284	CE1	PHE	17	2.661	1.116	11.607	1.00	0.00
ATOM	285	CE2	PHE	17	1.510	-0.090	13.321	1.00	0.00
ATOM	286	CZ	PHE	17	2.569	0.701	12.921	1.00	0.00
ATOM	289	H	PHE	17	-1.576	-0.486	7.824	1.00	0.00
ATOM	290	HA	PHE	17	1.078	-0.638	8.589	1.00	0.00
ATOM	291	1HB	PHE	17	-1.098	-1.155	10.585	1.00	0.00
ATOM	292	2HB	PHE	17	-0.972	0.415	9.797	1.00	0.00
ATOM	293	HD1	PHE	17	-0.284	-1.080	12.721	1.00	0.00
ATOM	294	HD2	PHE	17	1.766	1.064	9.669	1.00	0.00
ATOM	295	HE1	PHE	17	1.436	-0.415	14.347	1.00	0.00
ATOM	296	HE2	PHE	17	3.489	1.734	11.292	1.00	0.00
ATOM	297	HZ	PHE	17	3.325	0.994	13.634	1.00	0.00
ATOM	298	N	VAL	18	-0.563	-3.405	9.320	1.00	0.00
ATOM	299	CA	VAL	18	-0.373	-4.817	9.619	1.00	0.00
ATOM	303	C	VAL	18	0.136	-5.563	8.390	1.00	0.00
ATOM	304	O	VAL	18	1.005	-6.424	8.493	1.00	0.00
ATOM	300	CB	VAL	18	-1.682	-5.470	10.117	1.00	0.00
ATOM	301	CG1	VAL	18	-1.458	-6.923	10.506	1.00	0.00
ATOM	302	CG2	VAL	18	-2.258	-4.692	11.291	1.00	0.00



ATOM	305	H	VAL	18	-1.474	-3.046	9.238	1.00	0.00
ATOM	306	HA	VAL	18	0.369	-4.895	10.402	1.00	0.00
ATOM	307	HB	VAL	18	-2.401	-5.445	9.311	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.604	-7.312	9.971	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.335	-7.502	10.252	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.278	-6.988	11.569	1.00	0.00
ATOM	311	1HG2	VAL	18	-1.984	-5.178	12.215	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.335	-4.660	11.208	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.867	-3.685	11.283	1.00	0.00
ATOM	314	N	GLY	19	-0.399	-5.218	7.228	1.00	0.00
ATOM	315	CA	GLY	19	0.018	-5.863	5.999	1.00	0.00
ATOM	316	C	GLY	19	1.485	-5.658	5.697	1.00	0.00
ATOM	317	O	GLY	19	2.214	-6.622	5.484	1.00	0.00
ATOM	318	H	GLY	19	-1.081	-4.513	7.201	1.00	0.00
ATOM	319	1HA	GLY	19	-0.566	-5.465	5.182	1.00	0.00
ATOM	320	2HA	GLY	19	-0.174	-6.922	6.080	1.00	0.00
ATOM	321	N	TYR	20	1.914	-4.405	5.665	1.00	0.00
ATOM	322	CA	TYR	20	3.303	-4.076	5.376	1.00	0.00
ATOM	331	C	TYR	20	4.238	-4.644	6.437	1.00	0.00
ATOM	332	O	TYR	20	5.317	-5.132	6.117	1.00	0.00
ATOM	323	CB	TYR	20	3.500	-2.561	5.271	1.00	0.00
ATOM	324	CG	TYR	20	4.880	-2.174	4.781	1.00	0.00
ATOM	325	CD1	TYR	20	5.301	-2.512	3.500	1.00	0.00
ATOM	326	CD2	TYR	20	5.767	-1.489	5.602	1.00	0.00
ATOM	327	CE1	TYR	20	6.565	-2.180	3.051	1.00	0.00
ATOM	328	CE2	TYR	20	7.033	-1.151	5.159	1.00	0.00
ATOM	329	CZ	TYR	20	7.427	-1.499	3.884	1.00	0.00
ATOM	330	OH	TYR	20	8.690	-1.171	3.445	1.00	0.00
ATOM	333	H	TYR	20	1.275	-3.676	5.830	1.00	0.00
ATOM	334	HA	TYR	20	3.548	-4.523	4.423	1.00	0.00
ATOM	335	1HB	TYR	20	3.354	-2.116	6.244	1.00	0.00
ATOM	336	2HB	TYR	20	2.775	-2.156	4.579	1.00	0.00
ATOM	337	HD1	TYR	20	4.623	-3.044	2.850	1.00	0.00
ATOM	338	HD2	TYR	20	5.457	-1.217	6.601	1.00	0.00
ATOM	339	HE1	TYR	20	6.872	-2.452	2.052	1.00	0.00
ATOM	340	HE2	TYR	20	7.708	-0.617	5.811	1.00	0.00
ATOM	341	HH	TYR	20	8.770	-1.375	2.505	1.00	0.00
ATOM	342	N	LYS	21	3.819	-4.581	7.697	1.00	0.00
ATOM	343	CA	LYS	21	4.628	-5.092	8.797	1.00	0.00
ATOM	349	C	LYS	21	4.828	-6.596	8.663	1.00	0.00
ATOM	350	O	LYS	21	5.932	-7.107	8.857	1.00	0.00
ATOM	344	CB	LYS	21	3.974	-4.762	10.142	1.00	0.00
ATOM	345	CG	LYS	21	4.836	-3.884	11.037	1.00	0.00
ATOM	346	CD	LYS	21	4.797	-4.346	12.485	1.00	0.00
ATOM	347	CE	LYS	21	6.175	-4.286	13.125	1.00	0.00
ATOM	348	NZ	LYS	21	6.655	-2.887	13.291	1.00	0.00
ATOM	351	H	LYS	21	2.944	-4.182	7.891	1.00	0.00
ATOM	352	HA	LYS	21	5.592	-4.609	8.748	1.00	0.00
ATOM	353	1HB	LYS	21	3.765	-5.682	10.665	1.00	0.00
ATOM	354	2HB	LYS	21	3.045	-4.245	9.956	1.00	0.00
ATOM	355	1HG	LYS	21	4.473	-2.868	10.982	1.00	0.00
ATOM	356	2HG	LYS	21	5.857	-3.922	10.687	1.00	0.00
ATOM	357	1HD	LYS	21	4.437	-5.365	12.518	1.00	0.00
ATOM	358	2HD	LYS	21	4.125	-3.707	13.038	1.00	0.00
ATOM	359	1HE	LYS	21	6.871	-4.823	12.499	1.00	0.00
ATOM	360	2HE	LYS	21	6.127	-4.757	14.095	1.00	0.00
ATOM	361	1HZ	LYS	21	6.904	-2.710	14.296	1.00	0.00
ATOM	362	2HZ	LYS	21	5.919	-2.214	13.005	1.00	0.00
ATOM	363	3HZ	LYS	21	7.502	-2.726	12.712	1.00	0.00
ATOM	364	N	LEU	22	3.756	-7.294	8.316	1.00	0.00
ATOM	365	CA	LEU	22	3.806	-8.737	8.138	1.00	0.00
ATOM	370	C	LEU	22	4.599	-9.069	6.887	1.00	0.00
ATOM	371	O	LEU	22	5.447	-9.957	6.891	1.00	0.00
ATOM	366	CB	LEU	22	2.393	-9.315	8.017	1.00	0.00
ATOM	367	CG	LEU	22	1.740	-9.765	9.327	1.00	0.00
ATOM	368	CD1	LEU	22	1.858	-8.688	10.391	1.00	0.00
ATOM	369	CD2	LEU	22	0.282	-10.117	9.085	1.00	0.00
ATOM	372	H	LEU	22	2.907	-6.825	8.167	1.00	0.00
ATOM	373	HA	LEU	22	4.298	-9.169	8.997	1.00	0.00
ATOM	374	1HB	LEU	22	2.434	-10.166	7.353	1.00	0.00
ATOM	375	2HB	LEU	22	1.760	-8.564	7.567	1.00	0.00
ATOM	376	HG	LEU	22	2.241	-10.651	9.693	1.00	0.00
ATOM	377	1HD1	LEU	22	1.785	-9.138	11.370	1.00	0.00



ATOM	378	2HD1	LEU	22	1.063	-7.968	10.264	1.00	0.00
ATOM	379	3HD1	LEU	22	2.812	-8.190	10.294	1.00	0.00
ATOM	380	1HD2	LEU	22	0.207	-11.148	8.771	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.120	-9.476	8.314	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.278	-9.978	9.997	1.00	0.00
ATOM	383	N	ARG	23	4.316	-8.333	5.820	1.00	0.00
ATOM	384	CA	ARG	23	4.985	-8.515	4.535	1.00	0.00
ATOM	392	C	ARG	23	6.481	-8.235	4.651	1.00	0.00
ATOM	393	O	ARG	23	7.271	-8.674	3.816	1.00	0.00
ATOM	385	CB	ARG	23	4.358	-7.584	3.491	1.00	0.00
ATOM	386	CG	ARG	23	3.598	-8.296	2.393	1.00	0.00
ATOM	387	CD	ARG	23	3.463	-7.407	1.165	1.00	0.00
ATOM	388	NE	ARG	23	4.675	-6.619	0.898	1.00	0.00
ATOM	389	CZ	ARG	23	5.847	-7.140	0.505	1.00	0.00
ATOM	390	NH1	ARG	23	5.977	-8.452	0.336	1.00	0.00
ATOM	391	NH2	ARG	23	6.889	-6.344	0.289	1.00	0.00
ATOM	394	H	ARG	23	3.627	-7.634	5.899	1.00	0.00
ATOM	395	HA	ARG	23	4.844	-9.540	4.227	1.00	0.00
ATOM	396	1HB	ARG	23	5.137	-7.002	3.026	1.00	0.00
ATOM	397	2HB	ARG	23	3.673	-6.915	3.987	1.00	0.00
ATOM	398	1HG	ARG	23	2.613	-8.552	2.754	1.00	0.00
ATOM	399	2HG	ARG	23	4.132	-9.195	2.121	1.00	0.00
ATOM	400	1HD	ARG	23	2.632	-6.728	1.322	1.00	0.00
ATOM	401	2HD	ARG	23	3.256	-8.029	0.307	1.00	0.00
ATOM	402	HE	ARG	23	4.608	-5.640	1.018	1.00	0.00
ATOM	403	1HH1	ARG	23	5.204	-9.061	0.504	1.00	0.00
ATOM	404	2HH1	ARG	23	6.859	-8.840	0.033	1.00	0.00
ATOM	405	1HH2	ARG	23	6.803	-5.354	0.415	1.00	0.00
ATOM	406	2HH2	ARG	23	7.776	-6.733	0.006	1.00	0.00
ATOM	407	N	GLN	24	6.853	-7.497	5.685	1.00	0.00
ATOM	408	CA	GLN	24	8.243	-7.145	5.916	1.00	0.00
ATOM	414	C	GLN	24	8.991	-8.265	6.634	1.00	0.00
ATOM	415	O	GLN	24	10.175	-8.486	6.379	1.00	0.00
ATOM	409	CB	GLN	24	8.329	-5.860	6.742	1.00	0.00
ATOM	410	CG	GLN	24	9.082	-4.736	6.050	1.00	0.00
ATOM	411	CD	GLN	24	9.640	-3.723	7.032	1.00	0.00
ATOM	412	OE1	GLN	24	9.837	-4.023	8.211	1.00	0.00
ATOM	413	NE2	GLN	24	9.899	-2.516	6.556	1.00	0.00
ATOM	416	H	GLN	24	6.168	-7.171	6.311	1.00	0.00
ATOM	417	HA	GLN	24	8.706	-6.975	4.958	1.00	0.00
ATOM	418	1HB	GLN	24	8.828	-6.078	7.675	1.00	0.00
ATOM	419	2HB	GLN	24	7.327	-5.515	6.952	1.00	0.00
ATOM	420	1HG	GLN	24	8.406	-4.230	5.376	1.00	0.00
ATOM	421	2HG	GLN	24	9.902	-5.159	5.489	1.00	0.00
ATOM	422	1HE2	GLN	24	9.719	-2.342	5.607	1.00	0.00
ATOM	423	2HE2	GLN	24	10.266	-1.846	7.168	1.00	0.00
ATOM	424	N	LYS	25	8.311	-8.967	7.539	1.00	0.00
ATOM	425	CA	LYS	25	8.952	-10.048	8.285	1.00	0.00
ATOM	431	C	LYS	25	7.955	-11.131	8.695	1.00	0.00
ATOM	432	O	LYS	25	7.554	-11.216	9.856	1.00	0.00
ATOM	426	CB	LYS	25	9.671	-9.500	9.529	1.00	0.00
ATOM	427	CG	LYS	25	9.043	-8.241	10.117	1.00	0.00
ATOM	428	CD	LYS	25	9.960	-7.036	9.959	1.00	0.00
ATOM	429	CE	LYS	25	9.958	-6.158	11.201	1.00	0.00
ATOM	430	NZ	LYS	25	11.160	-6.387	12.046	1.00	0.00
ATOM	433	H	LYS	25	7.366	-8.752	7.713	1.00	0.00
ATOM	434	HA	LYS	25	9.688	-10.495	7.634	1.00	0.00
ATOM	435	1HB	LYS	25	10.694	-9.274	9.265	1.00	0.00
ATOM	436	2HB	LYS	25	9.670	-10.262	10.294	1.00	0.00
ATOM	437	1HG	LYS	25	8.853	-8.402	11.168	1.00	0.00
ATOM	438	2HG	LYS	25	8.113	-8.043	9.607	1.00	0.00
ATOM	439	1HD	LYS	25	9.625	-6.450	9.115	1.00	0.00
ATOM	440	2HD	LYS	25	10.965	-7.384	9.779	1.00	0.00
ATOM	441	1HE	LYS	25	9.074	-6.380	11.779	1.00	0.00
ATOM	442	2HE	LYS	25	9.937	-5.123	10.894	1.00	0.00
ATOM	443	1HZ	LYS	25	11.031	-5.962	12.986	1.00	0.00
ATOM	444	2HZ	LYS	25	12.002	-5.962	11.602	1.00	0.00
ATOM	445	3HZ	LYS	25	11.331	-7.410	12.163	1.00	0.00
ATOM	446	N	GLY	26	7.570	-11.961	7.738	1.00	0.00
ATOM	447	CA	GLY	26	6.638	-13.036	8.018	1.00	0.00
ATOM	448	C	GLY	26	5.821	-13.409	6.807	1.00	0.00
ATOM	449	O	GLY	26	6.017	-14.463	6.207	1.00	0.00
ATOM	450	H	GLY	26	7.923	-11.848	6.831	1.00	0.00



ATOM	451	LHA	GLY	26	5.969	-12.725	8.806	1.00	0.00
ATOM	452	ZHA	GLY	26	7.188	-13.903	8.349	1.00	0.00
ATOM	453	N	TYR	27	4.926	-12.522	6.432	1.00	0.00
ATOM	454	CA	TYR	27	4.076	-12.725	5.272	1.00	0.00
ATOM	463	C	TYR	27	4.757	-12.151	4.034	1.00	0.00
ATOM	464	O	TYR	27	4.210	-11.294	3.341	1.00	0.00
ATOM	455	CB	TYR	27	2.713	-12.066	5.505	1.00	0.00
ATOM	456	CG	TYR	27	1.574	-12.735	4.771	1.00	0.00
ATOM	457	CD1	TYR	27	1.559	-14.111	4.580	1.00	0.00
ATOM	458	CD2	TYR	27	0.512	-11.992	4.274	1.00	0.00
ATOM	459	CE1	TYR	27	0.518	-14.728	3.914	1.00	0.00
ATOM	460	CE2	TYR	27	-0.534	-12.602	3.607	1.00	0.00
ATOM	461	CZ	TYR	27	-0.526	-13.969	3.431	1.00	0.00
ATOM	462	OH	TYR	27	-1.565	-14.579	2.768	1.00	0.00
ATOM	465	H	TYR	27	4.847	-11.684	6.942	1.00	0.00
ATOM	466	HA	TYR	27	3.940	-13.788	5.139	1.00	0.00
ATOM	467	1HB	TYR	27	2.758	-11.035	5.188	1.00	0.00
ATOM	468	2HB	TYR	27	2.486	-12.097	6.560	1.00	0.00
ATOM	469	HD1	TYR	27	0.509	-10.921	4.413	1.00	0.00
ATOM	470	HD2	TYR	27	2.378	-14.703	4.962	1.00	0.00
ATOM	471	HE1	TYR	27	-1.351	-12.007	3.227	1.00	0.00
ATOM	472	HE2	TYR	27	0.525	-15.798	3.775	1.00	0.00
ATOM	473	HH	TYR	27	-2.199	-14.926	3.417	1.00	0.00
ATOM	474	N	VAL	28	5.966	-12.630	3.774	1.00	0.00
ATOM	475	CA	VAL	28	6.750	-12.168	2.637	1.00	0.00
ATOM	479	C	VAL	28	6.261	-12.810	1.349	1.00	0.00
ATOM	480	O	VAL	28	6.273	-12.183	0.289	1.00	0.00
ATOM	476	CB	VAL	28	8.254	-12.476	2.820	1.00	0.00
ATOM	477	CG1	VAL	28	9.105	-11.490	2.037	1.00	0.00
ATOM	478	CG2	VAL	28	8.639	-12.458	4.292	1.00	0.00
ATOM	481	H	VAL	28	6.346	-13.308	4.374	1.00	0.00
ATOM	482	HA	VAL	28	6.628	-11.099	2.562	1.00	0.00
ATOM	483	HB	VAL	28	8.446	-13.467	2.433	1.00	0.00
ATOM	484	1HG1	VAL	28	8.648	-11.303	1.076	1.00	0.00
ATOM	485	2HG1	VAL	28	10.093	-11.902	1.890	1.00	0.00
ATOM	486	3HG1	VAL	28	9.180	-10.564	2.586	1.00	0.00
ATOM	487	1HG2	VAL	28	9.715	-12.512	4.384	1.00	0.00
ATOM	488	2HG2	VAL	28	8.193	-13.305	4.792	1.00	0.00
ATOM	489	3HG2	VAL	28	8.285	-11.544	4.745	1.00	0.00
ATOM	490	N	CYS	29	5.818	-14.054	1.455	1.00	0.00
ATOM	491	CA	CYS	29	5.304	-14.788	0.309	1.00	0.00
ATOM	494	C	CYS	29	3.967	-14.202	-0.114	1.00	0.00
ATOM	495	O	CYS	29	3.693	-14.021	-1.300	1.00	0.00
ATOM	492	CB	CYS	29	5.144	-16.262	0.670	1.00	0.00
ATOM	493	SG	CYS	29	5.402	-16.606	2.428	1.00	0.00
ATOM	496	H	CYS	29	5.826	-14.489	2.331	1.00	0.00
ATOM	497	HA	CYS	29	6.011	-14.690	-0.503	1.00	0.00
ATOM	498	1HB	CYS	29	5.861	-16.842	0.112	1.00	0.00
ATOM	499	2HB	CYS	29	4.145	-16.585	0.413	1.00	0.00
ATOM	500	HG	CYS	29	5.146	-17.894	2.626	1.00	0.00
ATOM	501	N	GLY	30	3.151	-13.885	0.882	1.00	0.00
ATOM	502	CA	GLY	30	1.851	-13.300	0.628	1.00	0.00
ATOM	503	C	GLY	30	1.941	-11.812	0.379	1.00	0.00
ATOM	504	O	GLY	30	1.305	-11.012	1.070	1.00	0.00
ATOM	505	H	GLY	30	3.442	-14.040	1.802	1.00	0.00
ATOM	506	1HA	GLY	30	1.219	-13.472	1.479	1.00	0.00
ATOM	507	2HA	GLY	30	1.414	-13.775	-0.238	1.00	0.00
ATOM	508	N	ALA	31	2.737	-11.445	-0.609	1.00	0.00
ATOM	509	CA	ALA	31	2.923	-10.051	-0.974	1.00	0.00
ATOM	511	C	ALA	31	1.616	-9.472	-1.492	1.00	0.00
ATOM	512	O	ALA	31	1.051	-9.979	-2.463	1.00	0.00
ATOM	510	CB	ALA	31	4.021	-9.920	-2.018	1.00	0.00
ATOM	513	H	ALA	31	3.212	-12.143	-1.112	1.00	0.00
ATOM	514	HA	ALA	31	3.224	-9.508	-0.088	1.00	0.00
ATOM	515	1HB	ALA	31	4.655	-10.793	-1.984	1.00	0.00
ATOM	516	2HB	ALA	31	4.610	-9.039	-1.814	1.00	0.00
ATOM	517	3HB	ALA	31	3.576	-9.836	-2.999	1.00	0.00
ATOM	518	N	GLY	32	1.128	-8.425	-0.837	1.00	0.00
ATOM	519	CA	GLY	32	-0.124	-7.825	-1.258	1.00	0.00
ATOM	520	C	GLY	32	-0.631	-6.763	-0.297	1.00	0.00
ATOM	521	O	GLY	32	-0.827	-5.620	-0.696	1.00	0.00
ATOM	522	H	GLY	32	1.612	-8.062	-0.060	1.00	0.00
ATOM	523	1HA	GLY	32	-0.869	-8.602	-1.343	1.00	0.00



ATOM	524	2HA	GLY	32	0.016	-7.374	-2.229	1.00	0.00
ATOM	525	N	PRO	33	-0.864	-7.100	0.986	1.00	0.00
ATOM	526	CA	PRO	33	-1.359	-6.126	1.962	1.00	0.00
ATOM	530	C	PRO	33	-0.385	-4.966	2.118	1.00	0.00
ATOM	531	O	PRO	33	-0.766	-3.801	2.051	1.00	0.00
ATOM	527	CB	PRO	33	-1.465	-6.940	3.258	1.00	0.00
ATOM	528	CG	PRO	33	-1.525	-8.362	2.817	1.00	0.00
ATOM	529	CD	PRO	33	-0.679	-8.431	1.582	1.00	0.00
ATOM	532	HA	PRO	33	-2.332	-5.747	1.683	1.00	0.00
ATOM	533	1HB	PRO	33	-2.359	-6.656	3.792	1.00	0.00
ATOM	534	2HB	PRO	33	-0.598	-6.754	3.873	1.00	0.00
ATOM	535	1HG	PRO	33	-2.545	-8.636	2.590	1.00	0.00
ATOM	536	2HG	PRO	33	-1.123	-9.003	3.586	1.00	0.00
ATOM	537	1HD	PRO	33	-1.027	-9.205	0.919	1.00	0.00
ATOM	538	2HD	PRO	33	0.357	-8.593	1.841	1.00	0.00
ATOM	539	N	GLY	34	0.882	-5.305	2.296	1.00	0.00
ATOM	540	CA	GLY	34	1.914	-4.301	2.432	1.00	0.00
ATOM	541	C	GLY	34	2.608	-4.023	1.116	1.00	0.00
ATOM	542	O	GLY	34	3.828	-3.870	1.073	1.00	0.00
ATOM	543	H	GLY	34	1.119	-6.250	2.322	1.00	0.00
ATOM	544	1HA	GLY	34	2.646	-4.650	3.145	1.00	0.00
ATOM	545	2HA	GLY	34	1.476	-3.387	2.803	1.00	0.00
ATOM	546	N	GLU	35	1.836	-3.981	0.037	1.00	0.00
ATOM	547	CA	GLU	35	2.389	-3.730	-1.287	1.00	0.00
ATOM	553	C	GLU	35	2.319	-2.238	-1.622	1.00	0.00
ATOM	554	O	GLU	35	2.855	-1.790	-2.640	1.00	0.00
ATOM	548	CB	GLU	35	1.633	-4.539	-2.352	1.00	0.00
ATOM	549	CG	GLU	35	0.391	-3.835	-2.888	1.00	0.00
ATOM	550	CD	GLU	35	-0.523	-4.748	-3.682	1.00	0.00
ATOM	551	OE1	GLU	35	-0.240	-5.960	-3.765	1.00	0.00
ATOM	552	OE2	GLU	35	-1.532	-4.252	-4.226	1.00	0.00
ATOM	555	H	GLU	35	0.869	-4.132	0.130	1.00	0.00
ATOM	556	HA	GLU	35	3.422	-4.042	-1.274	1.00	0.00
ATOM	557	1HB	GLU	35	1.328	-5.482	-1.922	1.00	0.00
ATOM	558	2HB	GLU	35	2.298	-4.730	-3.181	1.00	0.00
ATOM	559	1HG	GLU	35	0.704	-3.021	-3.524	1.00	0.00
ATOM	560	2HG	GLU	35	-0.167	-3.439	-2.053	1.00	0.00
ATOM	561	N	GLY	36	1.642	-1.478	-0.769	1.00	0.00
ATOM	562	CA	GLY	36	1.499	-0.056	-0.998	1.00	0.00
ATOM	563	C	GLY	36	2.311	0.777	-0.029	1.00	0.00
ATOM	564	O	GLY	36	2.780	0.268	0.989	1.00	0.00
ATOM	565	H	GLY	36	1.230	-1.889	0.019	1.00	0.00
ATOM	566	1HA	GLY	36	0.456	0.210	-0.898	1.00	0.00
ATOM	567	2HA	GLY	36	1.821	0.168	-2.004	1.00	0.00
ATOM	568	N	PRO	37	2.510	2.066	-0.336	1.00	0.00
ATOM	569	CA	PRO	37	3.281	2.978	0.488	1.00	0.00
ATOM	573	C	PRO	37	2.410	3.869	1.379	1.00	0.00
ATOM	574	O	PRO	37	1.214	3.627	1.567	1.00	0.00
ATOM	570	CB	PRO	37	3.982	3.819	-0.575	1.00	0.00
ATOM	571	CG	PRO	37	3.019	3.875	-1.727	1.00	0.00
ATOM	572	CD	PRO	37	2.025	2.747	-1.543	1.00	0.00
ATOM	575	HA	PRO	37	4.014	2.460	1.087	1.00	0.00
ATOM	576	1HB	PRO	37	4.907	3.343	-0.862	1.00	0.00
ATOM	577	2HB	PRO	37	4.183	4.804	-0.181	1.00	0.00
ATOM	578	1HG	PRO	37	3.557	3.748	-2.656	1.00	0.00
ATOM	579	2HG	PRO	37	2.505	4.824	-1.724	1.00	0.00
ATOM	580	1HD	PRO	37	2.044	2.082	-2.395	1.00	0.00
ATOM	581	2HD	PRO	37	1.032	3.138	-1.390	1.00	0.00
ATOM	582	N	ALA	38	3.022	4.917	1.907	1.00	0.00
ATOM	583	CA	ALA	38	2.337	5.874	2.759	1.00	0.00
ATOM	585	C	ALA	38	1.729	6.983	1.910	1.00	0.00
ATOM	586	O	ALA	38	2.232	8.104	1.882	1.00	0.00
ATOM	584	CB	ALA	38	3.318	6.446	3.766	1.00	0.00
ATOM	587	H	ALA	38	3.970	5.061	1.700	1.00	0.00
ATOM	588	HA	ALA	38	1.551	5.364	3.297	1.00	0.00
ATOM	589	1HB	ALA	38	3.951	7.172	3.280	1.00	0.00
ATOM	590	2HB	ALA	38	3.928	5.649	4.167	1.00	0.00
ATOM	591	3HB	ALA	38	2.774	6.921	4.568	1.00	0.00
ATOM	592	N	ALA	39	0.656	6.657	1.200	1.00	0.00
ATOM	593	CA	ALA	39	0.004	7.624	0.325	1.00	0.00
ATOM	595	C	ALA	39	-1.451	7.839	0.714	1.00	0.00
ATOM	596	O	ALA	39	-2.305	8.080	-0.134	1.00	0.00
ATOM	594	CB	ALA	39	0.105	7.165	-1.122	1.00	0.00



ATOM	597	H	ALA	39	0.301	5.740	1.253	1.00	0.00
ATOM	598	HA	ALA	39	0.531	8.562	0.416	1.00	0.00
ATOM	599	1HB	ALA	39	-0.868	7.222	-1.586	1.00	0.00
ATOM	600	2HB	ALA	39	0.458	6.144	-1.151	1.00	0.00
ATOM	601	3HB	ALA	39	0.797	7.800	-1.654	1.00	0.00
ATOM	602	N	ASP	40	-1.725	7.766	2.004	1.00	0.00
ATOM	603	CA	ASP	40	-3.066	7.965	2.508	1.00	0.00
ATOM	608	C	ASP	40	-3.032	8.968	3.646	1.00	0.00
ATOM	609	O	ASP	40	-1.976	9.192	4.246	1.00	0.00
ATOM	604	CB	ASP	40	-3.664	6.645	3.003	1.00	0.00
ATOM	605	CG	ASP	40	-4.391	5.882	1.916	1.00	0.00
ATOM	606	OD1	ASP	40	-5.171	6.507	1.173	1.00	0.00
ATOM	607	OD2	ASP	40	-4.180	4.656	1.811	1.00	0.00
ATOM	610	H	ASP	40	-1.009	7.589	2.635	1.00	0.00
ATOM	611	HA	ASP	40	-3.675	8.356	1.708	1.00	0.00
ATOM	612	1HB	ASP	40	-4.366	6.860	3.794	1.00	0.00
ATOM	613	2HB	ASP	40	-2.872	6.019	3.388	1.00	0.00
ATOM	614	N	PRO	41	-4.185	9.563	3.973	1.00	0.00
ATOM	615	CA	PRO	41	-4.321	10.549	5.054	1.00	0.00
ATOM	619	C	PRO	41	-4.185	9.933	6.447	1.00	0.00
ATOM	620	O	PRO	41	-4.752	10.434	7.417	1.00	0.00
ATOM	616	CB	PRO	41	-5.742	11.104	4.877	1.00	0.00
ATOM	617	CG	PRO	41	-6.254	10.547	3.588	1.00	0.00
ATOM	618	CD	PRO	41	-5.462	9.305	3.308	1.00	0.00
ATOM	621	HA	PRO	41	-3.605	11.349	4.948	1.00	0.00
ATOM	622	1HB	PRO	41	-5.704	12.184	4.847	1.00	0.00
ATOM	623	2HB	PRO	41	-6.354	10.788	5.707	1.00	0.00
ATOM	624	1HG	PRO	41	-6.111	11.268	2.795	1.00	0.00
ATOM	625	2HG	PRO	41	-7.302	10.304	3.686	1.00	0.00
ATOM	626	1HD	PRO	41	-5.319	9.174	2.247	1.00	0.00
ATOM	627	2HD	PRO	41	-5.939	8.438	3.732	1.00	0.00
ATOM	628	N	LEU	42	-3.425	8.850	6.546	1.00	0.00
ATOM	629	CA	LEU	42	-3.212	8.173	7.819	1.00	0.00
ATOM	634	C	LEU	42	-2.062	7.174	7.721	1.00	0.00
ATOM	635	O	LEU	42	-1.456	6.820	8.728	1.00	0.00
ATOM	630	CB	LEU	42	-4.488	7.442	8.273	1.00	0.00
ATOM	631	CG	LEU	42	-5.516	7.147	7.171	1.00	0.00
ATOM	632	CD1	LEU	42	-5.137	5.895	6.396	1.00	0.00
ATOM	633	CD2	LEU	42	-6.908	6.998	7.763	1.00	0.00
ATOM	636	H	LEU	42	-2.992	8.507	5.740	1.00	0.00
ATOM	637	HA	LEU	42	-2.952	8.928	8.550	1.00	0.00
ATOM	638	1HB	LEU	42	-4.970	8.046	9.028	1.00	0.00
ATOM	639	2HB	LEU	42	-4.197	6.504	8.723	1.00	0.00
ATOM	640	HG	LEU	42	-5.536	7.974	6.476	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.134	6.001	6.009	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.826	5.757	5.576	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.181	5.038	7.051	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.142	5.949	7.871	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.629	7.462	7.107	1.00	0.00
ATOM	646	3HD2	LEU	42	-6.940	7.476	8.731	1.00	0.00
ATOM	647	N	HIS	43	-1.776	6.715	6.506	1.00	0.00
ATOM	648	CA	HIS	43	-0.703	5.743	6.278	1.00	0.00
ATOM	655	C	HIS	43	0.628	6.243	6.826	1.00	0.00
ATOM	656	O	HIS	43	1.188	5.655	7.749	1.00	0.00
ATOM	649	CB	HIS	43	-0.544	5.462	4.781	1.00	0.00
ATOM	650	CG	HIS	43	-1.390	4.337	4.249	1.00	0.00
ATOM	651	ND1	HIS	43	-1.030	3.576	3.156	1.00	0.00
ATOM	652	CD2	HIS	43	-2.608	3.882	4.630	1.00	0.00
ATOM	653	CE1	HIS	43	-1.991	2.712	2.888	1.00	0.00
ATOM	654	NE2	HIS	43	-2.960	2.874	3.769	1.00	0.00
ATOM	657	H	HIS	43	-2.303	7.028	5.745	1.00	0.00
ATOM	658	HA	HIS	43	-0.966	4.832	6.790	1.00	0.00
ATOM	659	1HB	HIS	43	0.491	5.225	4.590	1.00	0.00
ATOM	660	2HB	HIS	43	-0.805	6.353	4.230	1.00	0.00
ATOM	661	HD1	HIS	43	-0.181	3.638	2.662	1.00	0.00
ATOM	662	HD2	HIS	43	-3.200	4.257	5.449	1.00	0.00
ATOM	663	HE1	HIS	43	-1.985	1.993	2.084	1.00	0.00
ATOM	664	HE2	HIS	43	-3.868	2.522	3.660	1.00	0.00
ATOM	665	N	GLN	44	1.129	7.327	6.240	1.00	0.00
ATOM	666	CA	GLN	44	2.405	7.916	6.656	1.00	0.00
ATOM	672	C	GLN	44	2.385	8.312	8.127	1.00	0.00
ATOM	673	O	GLN	44	3.428	8.397	8.773	1.00	0.00
ATOM	667	CB	GLN	44	2.740	9.140	5.796	1.00	0.00



ATOM	668	CG	GLN	44	1.521	9.850	5.228	1.00	0.00
ATOM	669	CD	GLN	44	1.847	11.232	4.695	1.00	0.00
ATOM	670	OE1	GLN	44	1.750	12.223	5.415	1.00	0.00
ATOM	671	NE2	GLN	44	2.235	11.307	3.431	1.00	0.00
ATOM	674	H	GLN	44	0.636	7.739	5.502	1.00	0.00
ATOM	675	HA	GLN	44	3.172	7.169	6.512	1.00	0.00
ATOM	676	1HB	GLN	44	3.360	8.823	4.971	1.00	0.00
ATOM	677	2HB	GLN	44	3.291	9.847	6.398	1.00	0.00
ATOM	678	1HG	GLN	44	0.781	9.946	6.008	1.00	0.00
ATOM	679	2HG	GLN	44	1.116	9.256	4.422	1.00	0.00
ATOM	680	1HE2	GLN	44	2.291	10.476	2.910	1.00	0.00
ATOM	681	2HE2	GLN	44	2.454	12.190	3.066	1.00	0.00
ATOM	682	N	ALA	45	1.194	8.542	8.651	1.00	0.00
ATOM	683	CA	ALA	45	1.044	8.925	10.044	1.00	0.00
ATOM	685	C	ALA	45	1.267	7.735	10.967	1.00	0.00
ATOM	686	O	ALA	45	1.978	7.835	11.969	1.00	0.00
ATOM	684	CB	ALA	45	-0.332	9.528	10.276	1.00	0.00
ATOM	687	H	ALA	45	0.396	8.444	8.087	1.00	0.00
ATOM	688	HA	ALA	45	1.783	9.681	10.264	1.00	0.00
ATOM	689	1HB	ALA	45	-0.339	10.549	9.925	1.00	0.00
ATOM	690	2HB	ALA	45	-0.562	9.506	11.331	1.00	0.00
ATOM	691	3HB	ALA	45	-1.071	8.956	9.734	1.00	0.00
ATOM	692	N	MET	46	0.649	6.610	10.634	1.00	0.00
ATOM	693	CA	MET	46	0.771	5.409	11.448	1.00	0.00
ATOM	698	C	MET	46	2.148	4.777	11.320	1.00	0.00
ATOM	699	O	MET	46	2.708	4.294	12.306	1.00	0.00
ATOM	694	CB	MET	46	-0.298	4.398	11.055	1.00	0.00
ATOM	695	CG	MET	46	-0.650	3.435	12.170	1.00	0.00
ATOM	696	SD	MET	46	-2.131	2.489	11.812	1.00	0.00
ATOM	697	CE	MET	46	-3.351	3.494	12.643	1.00	0.00
ATOM	700	H	MET	46	0.085	6.587	9.823	1.00	0.00
ATOM	701	HA	MET	46	0.620	5.693	12.480	1.00	0.00
ATOM	702	1HB	MET	46	0.055	3.826	10.210	1.00	0.00
ATOM	703	2HB	MET	46	-1.194	4.932	10.771	1.00	0.00
ATOM	704	1HG	MET	46	-0.810	3.998	13.077	1.00	0.00
ATOM	705	2HG	MET	46	0.170	2.753	12.311	1.00	0.00
ATOM	706	1HE	MET	46	-2.852	4.232	13.256	1.00	0.00
ATOM	707	2HE	MET	46	-3.967	2.866	13.267	1.00	0.00
ATOM	708	3HE	MET	46	-3.968	3.993	11.910	1.00	0.00
ATOM	709	N	ARG	47	2.682	4.771	10.109	1.00	0.00
ATOM	710	CA	ARG	47	3.991	4.180	9.852	1.00	0.00
ATOM	718	C	ARG	47	5.089	4.876	10.655	1.00	0.00
ATOM	719	O	ARG	47	6.024	4.229	11.132	1.00	0.00
ATOM	711	CB	ARG	47	4.312	4.233	8.358	1.00	0.00
ATOM	712	CG	ARG	47	3.675	3.108	7.557	1.00	0.00
ATOM	713	CD	ARG	47	3.188	3.598	6.204	1.00	0.00
ATOM	714	NE	ARG	47	2.702	2.511	5.356	1.00	0.00
ATOM	715	CZ	ARG	47	3.409	1.959	4.367	1.00	0.00
ATOM	716	NH1	ARG	47	4.648	2.376	4.114	1.00	0.00
ATOM	717	NH2	ARG	47	2.875	0.994	3.635	1.00	0.00
ATOM	720	H	ARG	47	2.179	5.164	9.363	1.00	0.00
ATOM	721	HA	ARG	47	3.948	3.146	10.160	1.00	0.00
ATOM	722	1HB	ARG	47	5.383	4.177	8.228	1.00	0.00
ATOM	723	2HB	ARG	47	3.959	5.173	7.961	1.00	0.00
ATOM	724	1HG	ARG	47	2.835	2.714	8.112	1.00	0.00
ATOM	725	2HG	ARG	47	4.406	2.327	7.405	1.00	0.00
ATOM	726	1HD	ARG	47	4.006	4.094	5.702	1.00	0.00
ATOM	727	2HD	ARG	47	2.386	4.304	6.361	1.00	0.00
ATOM	728	HE	ARG	47	1.780	2.174	5.530	1.00	0.00
ATOM	729	1HH1	ARG	47	5.054	3.107	4.665	1.00	0.00
ATOM	730	2HH1	ARG	47	5.179	1.957	3.376	1.00	0.00
ATOM	731	1HH2	ARG	47	1.927	0.675	3.830	1.00	0.00
ATOM	732	2HH2	ARG	47	3.388	0.580	2.879	1.00	0.00
ATOM	733	N	ALA	48	4.964	6.189	10.822	1.00	0.00
ATOM	734	CA	ALA	48	5.949	6.948	11.580	1.00	0.00
ATOM	736	C	ALA	48	5.701	6.780	13.065	1.00	0.00
ATOM	737	O	ALA	48	6.631	6.780	13.870	1.00	0.00
ATOM	735	CB	ALA	48	5.908	8.417	11.187	1.00	0.00
ATOM	738	H	ALA	48	4.186	6.652	10.441	1.00	0.00
ATOM	739	HA	ALA	48	6.932	6.552	11.345	1.00	0.00
ATOM	740	1HB	ALA	48	4.997	8.864	11.558	1.00	0.00
ATOM	741	2HB	ALA	48	5.939	8.502	10.112	1.00	0.00
ATOM	742	3HB	ALA	48	6.759	8.926	11.614	1.00	0.00



ATOM	743	N	ALA	49	4.437	6.604	13.420	1.00	0.00
ATOM	744	CA	ALA	49	4.069	6.395	14.803	1.00	0.00
ATOM	746	C	ALA	49	4.655	5.081	15.278	1.00	0.00
ATOM	747	O	ALA	49	5.406	5.039	16.256	1.00	0.00
ATOM	745	CB	ALA	49	2.561	6.385	14.950	1.00	0.00
ATOM	748	H	ALA	49	3.741	6.590	12.728	1.00	0.00
ATOM	749	HA	ALA	49	4.473	7.206	15.395	1.00	0.00
ATOM	750	1HB	ALA	49	2.228	5.379	15.159	1.00	0.00
ATOM	751	2HB	ALA	49	2.106	6.732	14.033	1.00	0.00
ATOM	752	3HB	ALA	49	2.274	7.035	15.763	1.00	0.00
ATOM	753	N	GLY	50	4.301	4.019	14.559	1.00	0.00
ATOM	754	CA	GLY	50	4.780	2.689	14.873	1.00	0.00
ATOM	755	C	GLY	50	6.284	2.632	15.037	1.00	0.00
ATOM	756	O	GLY	50	6.769	2.084	16.011	1.00	0.00
ATOM	757	H	GLY	50	3.694	4.145	13.793	1.00	0.00
ATOM	758	1HA	GLY	50	4.491	2.019	14.077	1.00	0.00
ATOM	759	2HA	GLY	50	4.317	2.360	15.792	1.00	0.00
ATOM	760	N	ASP	51	7.014	3.208	14.085	1.00	0.00
ATOM	761	CA	ASP	51	8.476	3.224	14.127	1.00	0.00
ATOM	766	C	ASP	51	8.993	3.862	15.420	1.00	0.00
ATOM	767	O	ASP	51	9.884	3.321	16.078	1.00	0.00
ATOM	762	CB	ASP	51	9.032	3.977	12.911	1.00	0.00
ATOM	763	CG	ASP	51	10.443	3.541	12.550	1.00	0.00
ATOM	764	OD1	ASP	51	11.331	3.580	13.426	1.00	0.00
ATOM	765	OD2	ASP	51	10.673	3.155	11.384	1.00	0.00
ATOM	768	H	ASP	51	6.559	3.633	13.331	1.00	0.00
ATOM	769	HA	ASP	51	8.817	2.201	14.089	1.00	0.00
ATOM	770	1HB	ASP	51	9.042	5.037	13.121	1.00	0.00
ATOM	771	2HB	ASP	51	8.391	3.795	12.060	1.00	0.00
ATOM	772	N	GLU	52	8.423	5.007	15.784	1.00	0.00
ATOM	773	CA	GLU	52	8.823	5.715	16.997	1.00	0.00
ATOM	779	C	GLU	52	8.580	4.856	18.237	1.00	0.00
ATOM	780	O	GLU	52	9.445	4.744	19.110	1.00	0.00
ATOM	774	CB	GLU	52	8.068	7.048	17.106	1.00	0.00
ATOM	775	CG	GLU	52	7.713	7.451	18.531	1.00	0.00
ATOM	776	CD	GLU	52	7.959	8.916	18.803	1.00	0.00
ATOM	777	OE1	GLU	52	7.130	9.750	18.380	1.00	0.00
ATOM	778	OE2	GLU	52	8.977	9.237	19.449	1.00	0.00
ATOM	781	H	GLU	52	7.710	5.386	15.223	1.00	0.00
ATOM	782	HA	GLU	52	9.882	5.918	16.925	1.00	0.00
ATOM	783	1HB	GLU	52	7.151	6.975	16.538	1.00	0.00
ATOM	784	2HB	GLU	52	8.680	7.829	16.679	1.00	0.00
ATOM	785	1HG	GLU	52	8.313	6.867	19.214	1.00	0.00
ATOM	786	2HG	GLU	52	6.669	7.241	18.701	1.00	0.00
ATOM	787	N	PHE	53	7.405	4.244	18.315	1.00	0.00
ATOM	788	CA	PHE	53	7.077	3.403	19.455	1.00	0.00
ATOM	796	C	PHE	53	7.852	2.097	19.405	1.00	0.00
ATOM	797	O	PHE	53	8.206	1.550	20.439	1.00	0.00
ATOM	789	CB	PHE	53	5.581	3.128	19.525	1.00	0.00
ATOM	790	CG	PHE	53	4.934	3.674	20.769	1.00	0.00
ATOM	791	CD1	PHE	53	5.118	4.998	21.137	1.00	0.00
ATOM	792	CD2	PHE	53	4.150	2.862	21.571	1.00	0.00
ATOM	793	CE1	PHE	53	4.530	5.502	22.282	1.00	0.00
ATOM	794	CE2	PHE	53	3.559	3.361	22.717	1.00	0.00
ATOM	795	CZ	PHE	53	3.750	4.682	23.073	1.00	0.00
ATOM	798	H	PHE	53	6.749	4.360	17.588	1.00	0.00
ATOM	799	HA	PHE	53	7.373	3.940	20.345	1.00	0.00
ATOM	800	1HB	PHE	53	5.415	2.060	19.503	1.00	0.00
ATOM	801	2HB	PHE	53	5.098	3.580	18.671	1.00	0.00
ATOM	802	HD1	PHE	53	5.727	5.641	20.518	1.00	0.00
ATOM	803	HD2	PHE	53	3.999	1.829	21.294	1.00	0.00
ATOM	804	HE1	PHE	53	4.681	6.535	22.557	1.00	0.00
ATOM	805	HE2	PHE	53	2.949	2.718	23.335	1.00	0.00
ATOM	806	HZ	PHE	53	3.291	5.073	23.969	1.00	0.00
ATOM	807	N	GLU	54	8.131	1.618	18.203	1.00	0.00
ATOM	808	CA	GLU	54	8.887	0.388	18.021	1.00	0.00
ATOM	814	C	GLU	54	10.306	0.587	18.551	1.00	0.00
ATOM	815	O	GLU	54	10.984	-0.360	18.957	1.00	0.00
ATOM	809	CB	GLU	54	8.895	-0.004	16.537	1.00	0.00
ATOM	810	CG	GLU	54	9.646	-1.291	16.237	1.00	0.00
ATOM	811	CD	GLU	54	8.847	-2.245	15.369	1.00	0.00
ATOM	812	OE1	GLU	54	7.637	-2.423	15.624	1.00	0.00
ATOM	813	OE2	GLU	54	9.420	-2.817	14.415	1.00	0.00



ATOM	816	H	GLU	54	7.828	2.111	17.407	1.00	0.00
ATOM	817	HA	GLU	54	8.405	-0.391	18.594	1.00	0.00
ATOM	818	1HB	GLU	54	9.342	0.798	15.963	1.00	0.00
ATOM	819	2HB	GLU	54	7.872	-0.133	16.213	1.00	0.00
ATOM	820	1HG	GLU	54	9.876	-1.784	17.170	1.00	0.00
ATOM	821	2HG	GLU	54	10.564	-1.046	15.723	1.00	0.00
ATOM	822	N	THR	55	10.732	1.845	18.566	1.00	0.00
ATOM	823	CA	THR	55	12.046	2.212	19.065	1.00	0.00
ATOM	827	C	THR	55	11.998	2.505	20.571	1.00	0.00
ATOM	828	O	THR	55	12.932	2.190	21.301	1.00	0.00
ATOM	824	CB	THR	55	12.597	3.443	18.314	1.00	0.00
ATOM	825	OG1	THR	55	12.480	3.236	16.901	1.00	0.00
ATOM	826	CG2	THR	55	14.055	3.699	18.676	1.00	0.00
ATOM	829	H	THR	55	10.132	2.550	18.243	1.00	0.00
ATOM	830	HA	THR	55	12.713	1.382	18.890	1.00	0.00
ATOM	831	HB	THR	55	12.012	4.308	18.590	1.00	0.00
ATOM	832	HG1	THR	55	11.550	3.080	16.670	1.00	0.00
ATOM	833	1HG2	THR	55	14.204	4.754	18.851	1.00	0.00
ATOM	834	2HG2	THR	55	14.690	3.375	17.865	1.00	0.00
ATOM	835	3HG2	THR	55	14.307	3.148	19.570	1.00	0.00
ATOM	836	N	ARG	56	10.907	3.111	21.033	1.00	0.00
ATOM	837	CA	ARG	56	10.755	3.442	22.451	1.00	0.00
ATOM	845	C	ARG	56	10.216	2.245	23.244	1.00	0.00
ATOM	846	O	ARG	56	10.896	1.696	24.117	1.00	0.00
ATOM	838	CB	ARG	56	9.811	4.640	22.614	1.00	0.00
ATOM	839	CG	ARG	56	10.489	5.997	22.452	1.00	0.00
ATOM	840	CD	ARG	56	9.636	7.120	23.033	1.00	0.00
ATOM	841	NE	ARG	56	9.554	8.277	22.142	1.00	0.00
ATOM	842	CZ	ARG	56	9.716	9.544	22.535	1.00	0.00
ATOM	843	NH1	ARG	56	9.997	9.833	23.802	1.00	0.00
ATOM	844	NH2	ARG	56	9.598	10.522	21.653	1.00	0.00
ATOM	847	H	ARG	56	10.189	3.346	20.406	1.00	0.00
ATOM	848	HA	ARG	56	11.729	3.706	22.835	1.00	0.00
ATOM	849	1HB	ARG	56	9.366	4.599	23.598	1.00	0.00
ATOM	850	2HB	ARG	56	9.027	4.565	21.874	1.00	0.00
ATOM	851	1HG	ARG	56	10.649	6.185	21.400	1.00	0.00
ATOM	852	2HG	ARG	56	11.439	5.977	22.964	1.00	0.00
ATOM	853	1HD	ARG	56	10.067	7.433	23.971	1.00	0.00
ATOM	854	2HD	ARG	56	8.640	6.742	23.207	1.00	0.00
ATOM	855	HE	ARG	56	9.356	8.104	21.189	1.00	0.00
ATOM	856	1HH1	ARG	56	10.093	9.105	24.482	1.00	0.00
ATOM	857	2HH1	ARG	56	10.116	10.800	24.082	1.00	0.00
ATOM	858	1HH2	ARG	56	9.384	10.304	20.683	1.00	0.00
ATOM	859	2HH2	ARG	56	9.716	11.477	21.937	1.00	0.00
ATOM	860	N	PHE	57	8.993	1.852	22.919	1.00	0.00
ATOM	861	CA	PHE	57	8.301	0.731	23.556	1.00	0.00
ATOM	869	C	PHE	57	8.742	-0.601	22.946	1.00	0.00
ATOM	870	O	PHE	57	7.993	-1.238	22.210	1.00	0.00
ATOM	862	CB	PHE	57	6.793	0.927	23.366	1.00	0.00
ATOM	863	CG	PHE	57	5.911	0.150	24.305	1.00	0.00
ATOM	864	CD1	PHE	57	6.251	-0.021	25.637	1.00	0.00
ATOM	865	CD2	PHE	57	4.722	-0.394	23.845	1.00	0.00
ATOM	866	CE1	PHE	57	5.420	-0.722	26.493	1.00	0.00
ATOM	867	CE2	PHE	57	3.890	-1.098	24.692	1.00	0.00
ATOM	868	CZ	PHE	57	4.237	-1.262	26.016	1.00	0.00
ATOM	871	H	PHE	57	8.525	2.332	22.203	1.00	0.00
ATOM	872	HA	PHE	57	8.535	0.740	24.611	1.00	0.00
ATOM	873	1HB	PHE	57	6.535	0.638	22.357	1.00	0.00
ATOM	874	2HB	PHE	57	6.560	1.974	23.495	1.00	0.00
ATOM	875	HD1	PHE	57	7.174	0.399	26.007	1.00	0.00
ATOM	876	HD2	PHE	57	4.449	-0.267	22.808	1.00	0.00
ATOM	877	HE1	PHE	57	5.694	-0.851	27.529	1.00	0.00
ATOM	878	HE2	PHE	57	2.967	-1.518	24.318	1.00	0.00
ATOM	879	HZ	PHE	57	3.582	-1.808	26.681	1.00	0.00
ATOM	880	N	ARG	58	9.965	-1.013	23.248	1.00	0.00
ATOM	881	CA	ARG	58	10.509	-2.261	22.711	1.00	0.00
ATOM	889	C	ARG	58	10.060	-3.477	23.523	1.00	0.00
ATOM	890	O	ARG	58	10.424	-4.612	23.214	1.00	0.00
ATOM	882	CB	ARG	58	12.035	-2.198	22.678	1.00	0.00
ATOM	883	CG	ARG	58	12.574	-1.006	21.911	1.00	0.00
ATOM	884	CD	ARG	58	13.896	-0.531	22.484	1.00	0.00
ATOM	885	NE	ARG	58	13.716	0.397	23.604	1.00	0.00
ATOM	886	CZ	ARG	58	14.653	0.649	24.521	1.00	0.00



ATOM	887	NH1	ARG	58	15.838	0.045	24.449	1.00	0.00
ATOM	888	NH2	ARG	58	14.406	1.513	25.504	1.00	0.00
ATOM	891	H	ARG	58	10.523	-0.459	23.832	1.00	0.00
ATOM	892	HA	ARG	58	10.145	-2.370	21.701	1.00	0.00
ATOM	893	1HB	ARG	58	12.412	-3.098	22.215	1.00	0.00
ATOM	894	2HB	ARG	58	12.405	-2.144	23.692	1.00	0.00
ATOM	895	1HG	ARG	58	11.856	-0.201	21.967	1.00	0.00
ATOM	896	2HG	ARG	58	12.719	-1.290	20.879	1.00	0.00
ATOM	897	1HD	ARG	58	14.453	-0.034	21.703	1.00	0.00
ATOM	898	2HD	ARG	58	14.452	-1.390	22.828	1.00	0.00
ATOM	899	HE	ARG	58	12.852	0.863	23.667	1.00	0.00
ATOM	900	1HH1	ARG	58	16.034	-0.606	23.698	1.00	0.00
ATOM	901	2HH1	ARG	58	16.544	0.228	25.135	1.00	0.00
ATOM	902	1HH2	ARG	58	13.519	1.974	25.558	1.00	0.00
ATOM	903	2HH2	ARG	58	15.115	1.714	26.194	1.00	0.00
ATOM	904	N	ARG	59	9.271	-3.246	24.562	1.00	0.00
ATOM	905	CA	ARG	59	8.794	-4.337	25.405	1.00	0.00
ATOM	913	C	ARG	59	7.425	-4.832	24.951	1.00	0.00
ATOM	914	O	ARG	59	6.675	-5.404	25.736	1.00	0.00
ATOM	906	CB	ARG	59	8.734	-3.896	26.869	1.00	0.00
ATOM	907	CG	ARG	59	9.525	-4.797	27.806	1.00	0.00
ATOM	908	CD	ARG	59	9.029	-4.688	29.239	1.00	0.00
ATOM	909	NE	ARG	59	10.024	-4.074	30.120	1.00	0.00
ATOM	910	CZ	ARG	59	9.774	-3.674	31.368	1.00	0.00
ATOM	911	NH1	ARG	59	8.568	-3.847	31.901	1.00	0.00
ATOM	912	NH2	ARG	59	10.736	-3.109	32.083	1.00	0.00
ATOM	915	H	ARG	59	9.006	-2.326	24.769	1.00	0.00
ATOM	916	HA	ARG	59	9.498	-5.150	25.317	1.00	0.00
ATOM	917	1HB	ARG	59	7.702	-3.895	27.190	1.00	0.00
ATOM	918	2HB	ARG	59	9.128	-2.894	26.948	1.00	0.00
ATOM	919	1HG	ARG	59	10.565	-4.510	27.771	1.00	0.00
ATOM	920	2HG	ARG	59	9.420	-5.820	27.477	1.00	0.00
ATOM	921	1HD	ARG	59	8.802	-5.679	29.604	1.00	0.00
ATOM	922	2HD	ARG	59	8.131	-4.087	29.252	1.00	0.00
ATOM	923	HE	ARG	59	10.931	-3.950	29.757	1.00	0.00
ATOM	924	1HH1	ARG	59	7.841	-4.284	31.372	1.00	0.00
ATOM	925	2HH1	ARG	59	8.379	-3.530	32.842	1.00	0.00
ATOM	926	1HH2	ARG	59	11.652	-2.979	31.680	1.00	0.00
ATOM	927	2HH2	ARG	59	10.563	-2.815	33.032	1.00	0.00
ATOM	928	N	THR	60	7.103	-4.608	23.684	1.00	0.00
ATOM	929	CA	THR	60	5.817	-5.032	23.144	1.00	0.00
ATOM	933	C	THR	60	5.957	-6.305	22.303	1.00	0.00
ATOM	934	O	THR	60	4.975	-6.827	21.778	1.00	0.00
ATOM	930	CB	THR	60	5.174	-3.912	22.295	1.00	0.00
ATOM	931	OG1	THR	60	3.801	-4.219	22.029	1.00	0.00
ATOM	932	CG2	THR	60	5.920	-3.713	20.981	1.00	0.00
ATOM	935	H	THR	60	7.737	-4.143	23.101	1.00	0.00
ATOM	936	HA	THR	60	5.163	-5.241	23.978	1.00	0.00
ATOM	937	HB	THR	60	5.220	-2.990	22.857	1.00	0.00
ATOM	938	HG1	THR	60	3.697	-5.173	21.935	1.00	0.00
ATOM	939	1HG2	THR	60	5.209	-3.547	20.185	1.00	0.00
ATOM	940	2HG2	THR	60	6.506	-4.593	20.763	1.00	0.00
ATOM	941	3HG2	THR	60	6.574	-2.857	21.065	1.00	0.00
ATOM	942	N	PHE	61	7.182	-6.798	22.174	1.00	0.00
ATOM	943	CA	PHE	61	7.437	-7.998	21.385	1.00	0.00
ATOM	951	C	PHE	61	7.396	-9.254	22.253	1.00	0.00
ATOM	952	O	PHE	61	7.228	-10.364	21.752	1.00	0.00
ATOM	944	CB	PHE	61	8.790	-7.889	20.683	1.00	0.00
ATOM	945	CG	PHE	61	8.707	-7.292	19.308	1.00	0.00
ATOM	946	CD1	PHE	61	8.661	-5.916	19.137	1.00	0.00
ATOM	947	CD2	PHE	61	8.673	-8.104	18.186	1.00	0.00
ATOM	948	CE1	PHE	61	8.585	-5.363	17.873	1.00	0.00
ATOM	949	CE2	PHE	61	8.596	-7.556	16.919	1.00	0.00
ATOM	950	CZ	PHE	61	8.551	-6.184	16.763	1.00	0.00
ATOM	953	H	PHE	61	7.930	-6.340	22.610	1.00	0.00
ATOM	954	HA	PHE	61	6.660	-8.070	20.638	1.00	0.00
ATOM	955	1HB	PHE	61	9.222	-8.875	20.594	1.00	0.00
ATOM	956	2HB	PHE	61	9.445	-7.268	21.275	1.00	0.00
ATOM	957	HD1	PHE	61	8.688	-5.274	20.005	1.00	0.00
ATOM	958	HD2	PHE	61	8.708	-9.176	18.307	1.00	0.00
ATOM	959	HE1	PHE	61	8.550	-4.290	17.754	1.00	0.00
ATOM	960	HE2	PHE	61	8.570	-8.199	16.052	1.00	0.00
ATOM	961	HZ	PHE	61	8.491	-5.753	15.774	1.00	0.00



ATOM	962	N	SER	62	7.552	-9.072	23.553	1.00	0.00
ATOM	963	CA	SER	62	7.546	-10.180	24.498	1.00	0.00
ATOM	966	C	SER	62	6.164	-10.816	24.615	1.00	0.00
ATOM	967	O	SER	62	6.037	-12.036	24.724	1.00	0.00
ATOM	964	CB	SER	62	8.002	-9.660	25.861	1.00	0.00
ATOM	965	OG	SER	62	8.046	-8.238	25.863	1.00	0.00
ATOM	968	H	SER	62	7.688	-8.162	23.896	1.00	0.00
ATOM	969	HA	SER	62	8.245	-10.925	24.151	1.00	0.00
ATOM	970	1HB	SER	62	8.989	-10.038	26.080	1.00	0.00
ATOM	971	2HB	SER	62	7.310	-9.989	26.621	1.00	0.00
ATOM	972	HG	SER	62	7.283	-7.896	26.347	1.00	0.00
ATOM	973	N	ASP	63	5.137	-9.980	24.609	1.00	0.00
ATOM	974	CA	ASP	63	3.756	-10.435	24.741	1.00	0.00
ATOM	979	C	ASP	63	3.337	-11.334	23.588	1.00	0.00
ATOM	980	O	ASP	63	2.417	-12.141	23.724	1.00	0.00
ATOM	975	CB	ASP	63	2.818	-9.234	24.844	1.00	0.00
ATOM	976	CG	ASP	63	2.882	-8.562	26.207	1.00	0.00
ATOM	977	OD1	ASP	63	3.984	-8.530	26.800	1.00	0.00
ATOM	978	OD2	ASP	63	1.838	-8.070	26.680	1.00	0.00
ATOM	981	H	ASP	63	5.309	-9.018	24.536	1.00	0.00
ATOM	982	HA	ASP	63	3.689	-11.010	25.649	1.00	0.00
ATOM	983	1HB	ASP	63	1.805	-9.563	24.671	1.00	0.00
ATOM	984	2HB	ASP	63	3.090	-8.509	24.092	1.00	0.00
ATOM	985	N	LEU	64	4.022	-11.209	22.465	1.00	0.00
ATOM	986	CA	LEU	64	3.721	-12.034	21.301	1.00	0.00
ATOM	991	C	LEU	64	4.108	-13.475	21.600	1.00	0.00
ATOM	992	O	LEU	64	3.395	-14.419	21.251	1.00	0.00
ATOM	987	CB	LEU	64	4.490	-11.541	20.068	1.00	0.00
ATOM	988	CG	LEU	64	3.948	-10.285	19.371	1.00	0.00
ATOM	989	CD1	LEU	64	2.875	-9.585	20.198	1.00	0.00
ATOM	990	CD2	LEU	64	5.093	-9.331	19.073	1.00	0.00
ATOM	993	H	LEU	64	4.751	-10.558	22.419	1.00	0.00
ATOM	994	HA	LEU	64	2.660	-11.979	21.111	1.00	0.00
ATOM	995	1HB	LEU	64	4.504	-12.344	19.345	1.00	0.00
ATOM	996	2HB	LEU	64	5.505	-11.341	20.368	1.00	0.00
ATOM	997	HG	LEU	64	3.505	-10.571	18.429	1.00	0.00
ATOM	998	1HD1	LEU	64	1.908	-9.998	19.956	1.00	0.00
ATOM	999	2HD1	LEU	64	2.882	-8.529	19.975	1.00	0.00
ATOM	1000	3HD1	LEU	64	3.079	-9.732	21.248	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.204	-8.634	19.892	1.00	0.00
ATOM	1002	2HD2	LEU	64	4.882	-8.788	18.164	1.00	0.00
ATOM	1003	3HD2	LEU	64	6.008	-9.892	18.954	1.00	0.00
ATOM	1004	N	ALA	65	5.237	-13.631	22.280	1.00	0.00
ATOM	1005	CA	ALA	65	5.730	-14.943	22.657	1.00	0.00
ATOM	1007	C	ALA	65	4.990	-15.447	23.881	1.00	0.00
ATOM	1008	O	ALA	65	4.574	-16.600	23.932	1.00	0.00
ATOM	1006	CB	ALA	65	7.228	-14.892	22.923	1.00	0.00
ATOM	1009	H	ALA	65	5.740	-12.833	22.555	1.00	0.00
ATOM	1010	HA	ALA	65	5.553	-15.619	21.834	1.00	0.00
ATOM	1011	1HB	ALA	65	7.475	-13.961	23.410	1.00	0.00
ATOM	1012	2HB	ALA	65	7.762	-14.961	21.987	1.00	0.00
ATOM	1013	3HB	ALA	65	7.510	-15.717	23.560	1.00	0.00
ATOM	1014	N	ALA	66	4.826	-14.563	24.860	1.00	0.00
ATOM	1015	CA	ALA	66	4.129	-14.890	26.100	1.00	0.00
ATOM	1017	C	ALA	66	2.764	-15.517	25.823	1.00	0.00
ATOM	1018	O	ALA	66	2.371	-16.491	26.466	1.00	0.00
ATOM	1016	CB	ALA	66	3.977	-13.642	26.946	1.00	0.00
ATOM	1019	H	ALA	66	5.188	-13.651	24.744	1.00	0.00
ATOM	1020	HA	ALA	66	4.733	-15.593	26.652	1.00	0.00
ATOM	1021	1HB	ALA	66	4.182	-13.882	27.979	1.00	0.00
ATOM	1022	2HB	ALA	66	2.968	-13.268	26.857	1.00	0.00
ATOM	1023	3HB	ALA	66	4.673	-12.890	26.606	1.00	0.00
ATOM	1024	N	GLN	67	2.049	-14.951	24.858	1.00	0.00
ATOM	1025	CA	GLN	67	0.727	-15.442	24.489	1.00	0.00
ATOM	1031	C	GLN	67	0.786	-16.760	23.724	1.00	0.00
ATOM	1032	O	GLN	67	0.107	-17.725	24.079	1.00	0.00
ATOM	1026	CB	GLN	67	0.008	-14.419	23.621	1.00	0.00
ATOM	1027	CG	GLN	67	-0.730	-13.357	24.405	1.00	0.00
ATOM	1028	CD	GLN	67	-1.275	-12.277	23.503	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.465	-12.251	23.193	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.404	-11.383	23.067	1.00	0.00
ATOM	1033	H	GLN	67	2.421	-14.173	24.385	1.00	0.00
ATOM	1034	HA	GLN	67	0.160	-15.588	25.395	1.00	0.00



ATOM	1035	1HB	GLN	67	-0.706	-14.934	22.995	1.00	0.00
ATOM	1036	2HB	GLN	67	0.734	-13.927	22.991	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.051	-12.909	25.114	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.553	-13.819	24.932	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.533	-11.472	23.350	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.729	-10.667	22.484	1.00	0.00
ATOM	1041	N	LEU	68	1.558	-16.785	22.645	1.00	0.00
ATOM	1042	CA	LEU	68	1.649	-17.972	21.800	1.00	0.00
ATOM	1047	C	LEU	68	2.645	-19.000	22.330	1.00	0.00
ATOM	1048	O	LEU	68	3.026	-19.925	21.614	1.00	0.00
ATOM	1043	CB	LEU	68	2.017	-17.573	20.368	1.00	0.00
ATOM	1044	CG	LEU	68	0.855	-17.060	19.504	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.478	-17.606	19.998	1.00	0.00
ATOM	1046	CD2	LEU	68	0.838	-15.539	19.483	1.00	0.00
ATOM	1049	H	LEU	68	2.051	-15.973	22.386	1.00	0.00
ATOM	1050	HA	LEU	68	0.671	-18.432	21.786	1.00	0.00
ATOM	1051	1HB	LEU	68	2.445	-18.435	19.877	1.00	0.00
ATOM	1052	2HB	LEU	68	2.769	-16.799	20.415	1.00	0.00
ATOM	1053	HG	LEU	68	0.996	-17.404	18.490	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.463	-18.685	19.956	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.275	-17.232	19.371	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.643	-17.288	21.017	1.00	0.00
ATOM	1057	1HD2	LEU	68	1.519	-15.161	20.230	1.00	0.00
ATOM	1058	2HD2	LEU	68	-0.161	-15.188	19.696	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.142	-15.189	18.508	1.00	0.00
ATOM	1060	N	HIS	69	3.055	-18.854	23.578	1.00	0.00
ATOM	1061	CA	HIS	69	3.992	-19.794	24.175	1.00	0.00
ATOM	1068	C	HIS	69	3.258	-21.063	24.573	1.00	0.00
ATOM	1069	O	HIS	69	3.813	-22.161	24.534	1.00	0.00
ATOM	1062	CB	HIS	69	4.666	-19.181	25.408	1.00	0.00
ATOM	1063	CG	HIS	69	5.737	-20.043	26.006	1.00	0.00
ATOM	1064	ND1	HIS	69	6.961	-20.243	25.409	1.00	0.00
ATOM	1065	CD2	HIS	69	5.760	-20.756	27.158	1.00	0.00
ATOM	1066	CE1	HIS	69	7.691	-21.040	26.165	1.00	0.00
ATOM	1067	NE2	HIS	69	6.987	-21.363	27.232	1.00	0.00
ATOM	1070	H	HIS	69	2.722	-18.099	24.109	1.00	0.00
ATOM	1071	HA	HIS	69	4.741	-20.036	23.438	1.00	0.00
ATOM	1072	1HB	HIS	69	3.918	-19.005	26.167	1.00	0.00
ATOM	1073	2HB	HIS	69	5.117	-18.240	25.130	1.00	0.00
ATOM	1074	HD1	HIS	69	7.252	-19.859	24.543	1.00	0.00
ATOM	1075	HD2	HIS	69	4.961	-20.832	27.881	1.00	0.00
ATOM	1076	HE1	HIS	69	8.697	-21.369	25.948	1.00	0.00
ATOM	1077	HE2	HIS	69	7.338	-21.855	28.015	1.00	0.00
ATOM	1078	N	VAL	70	2.005	-20.899	24.959	1.00	0.00
ATOM	1079	CA	VAL	70	1.179	-22.024	25.365	1.00	0.00
ATOM	1083	C	VAL	70	0.398	-22.588	24.185	1.00	0.00
ATOM	1084	O	VAL	70	0.707	-23.668	23.683	1.00	0.00
ATOM	1080	CB	VAL	70	0.197	-21.645	25.496	1.00	0.00
ATOM	1081	CG1	VAL	70	0.689	-22.196	27.826	1.00	0.00
ATOM	1082	CG2	VAL	70	0.000	-20.135	26.580	1.00	0.00
ATOM	1085	H	VAL	70	1.623	-20.000	24.964	1.00	0.00
ATOM	1086	HA	VAL	70	1.839	-22.793	25.739	1.00	0.00
ATOM	1087	HB	VAL	70	-0.761	-22.098	26.279	1.00	0.00
ATOM	1088	1HG1	VAL	70	1.206	-23.129	27.659	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.155	-22.365	28.480	1.00	0.00
ATOM	1090	3HG1	VAL	70	1.362	-21.486	28.283	1.00	0.00
ATOM	1091	1HG2	VAL	70	0.350	-19.779	27.538	1.00	0.00
ATOM	1092	2HG2	VAL	70	-1.048	-19.902	26.471	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.561	-19.656	25.791	1.00	0.00
ATOM	1094	N	THR	71	-0.622	-21.856	23.752	1.00	0.00
ATOM	1095	CA	THR	71	-1.463	-22.281	22.640	1.00	0.00
ATOM	1099	C	THR	71	-2.233	-21.091	22.065	1.00	0.00
ATOM	1100	O	THR	71	-2.490	-20.108	22.770	1.00	0.00
ATOM	1096	CB	THR	71	-2.470	-23.364	23.089	1.00	0.00
ATOM	1097	CG1	THR	71	-2.438	-23.512	24.517	1.00	0.00
ATOM	1098	CG2	THR	71	-2.158	-24.699	22.430	1.00	0.00
ATOM	1101	H	THR	71	-0.822	-21.005	24.194	1.00	0.00
ATOM	1102	HA	THR	71	-0.826	-22.698	21.874	1.00	0.00
ATOM	1103	HB	THR	71	-3.462	-23.057	22.790	1.00	0.00
ATOM	1104	HG1	THR	71	-1.622	-23.952	24.774	1.00	0.00
ATOM	1105	1HG2	THR	71	-2.868	-25.441	22.763	1.00	0.00
ATOM	1106	2HG2	THR	71	-1.160	-25.009	22.700	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.224	-24.595	21.356	1.00	0.00



ATOM	1108	N	PRO	72	-2.608	-21.156	20.775	1.00	0.00
ATOM	1109	CA	PRO	72	-3.349	-20.095	20.105	1.00	0.00
ATOM	1113	C	PRO	72	-4.859	-20.242	20.297	1.00	0.00
ATOM	1114	O	PRO	72	-5.316	-21.029	21.127	1.00	0.00
ATOM	1110	CB	PRO	72	-2.975	-20.277	18.624	1.00	0.00
ATOM	1111	CG	PRO	72	-2.221	-21.573	18.527	1.00	0.00
ATOM	1112	CD	PRO	72	-2.345	-22.264	19.858	1.00	0.00
ATOM	1115	HA	PRO	72	-3.035	-19.119	20.443	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.364	-19.446	18.306	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.877	-20.307	18.032	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.182	-21.373	18.306	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.653	-22.187	17.752	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.423	-22.766	20.112	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.168	-22.964	19.847	1.00	0.00
ATOM	1122	N	GLY	73	-5.631	-19.489	19.520	1.00	0.00
ATOM	1123	CA	GLY	73	-7.080	-19.564	19.611	1.00	0.00
ATOM	1124	C	GLY	73	-7.654	-18.661	20.687	1.00	0.00
ATOM	1125	O	GLY	73	-8.401	-17.727	20.391	1.00	0.00
ATOM	1126	H	GLY	73	-5.215	-18.886	18.870	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.361	-20.585	19.827	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.502	-19.283	18.659	1.00	0.00
ATOM	1129	N	SER	74	-7.303	-18.932	21.938	1.00	0.00
ATOM	1130	CA	SER	74	-7.788	-18.149	23.072	1.00	0.00
ATOM	1133	C	SER	74	-7.074	-16.798	23.179	1.00	0.00
ATOM	1134	O	SER	74	-6.991	-16.206	24.256	1.00	0.00
ATOM	1131	CB	SER	74	-7.589	-18.952	24.356	1.00	0.00
ATOM	1132	OG	SER	74	-6.854	-20.138	24.096	1.00	0.00
ATOM	1135	H	SER	74	-6.700	-19.691	22.111	1.00	0.00
ATOM	1136	HA	SER	74	-8.844	-17.974	22.930	1.00	0.00
ATOM	1137	1HB	SER	74	-8.552	-19.220	24.765	1.00	0.00
ATOM	1138	2HB	SER	74	-7.045	-18.353	25.073	1.00	0.00
ATOM	1139	HG	SER	74	-7.451	-20.814	23.734	1.00	0.00
ATOM	1140	N	ALA	75	-6.564	-16.314	22.058	1.00	0.00
ATOM	1141	CA	ALA	75	-5.859	-15.045	22.023	1.00	0.00
ATOM	1143	C	ALA	75	-6.824	-13.868	21.984	1.00	0.00
ATOM	1144	O	ALA	75	-6.461	-12.757	22.363	1.00	0.00
ATOM	1142	CB	ALA	75	-4.919	-15.000	20.828	1.00	0.00
ATOM	1145	H	ALA	75	-6.666	-16.828	21.230	1.00	0.00
ATOM	1146	HA	ALA	75	-5.261	-14.973	22.915	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.818	-15.990	20.410	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.950	-14.641	21.144	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.322	-14.333	20.078	1.00	0.00
ATOM	1150	N	GLN	76	-8.049	-14.105	21.516	1.00	0.00
ATOM	1151	CA	GLN	76	-9.038	-13.032	21.424	1.00	0.00
ATOM	1157	C	GLN	76	-9.365	-12.455	22.788	1.00	0.00
ATOM	1158	O	GLN	76	-9.438	-11.241	22.940	1.00	0.00
ATOM	1152	CB	GLN	76	-10.312	-13.489	20.702	1.00	0.00
ATOM	1153	CG	GLN	76	-10.812	-14.860	21.103	1.00	0.00
ATOM	1154	CD	GLN	76	-12.247	-15.102	20.678	1.00	0.00
ATOM	1155	OE1	GLN	76	-13.018	-15.737	21.395	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.614	-14.596	19.512	1.00	0.00
ATOM	1159	H	GLN	76	-8.285	-15.008	21.218	1.00	0.00
ATOM	1160	HA	GLN	76	-8.585	-12.245	20.836	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.123	-13.496	19.639	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.096	-12.776	20.908	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.750	-14.947	22.169	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.183	-15.608	20.643	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.950	-14.097	18.991	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.542	-14.741	19.214	1.00	0.00
ATOM	1167	N	GLN	77	-9.541	-13.319	23.780	1.00	0.00
ATOM	1168	CA	GLN	77	-9.846	-12.865	25.132	1.00	0.00
ATOM	1174	C	GLN	77	-8.701	-12.019	25.670	1.00	0.00
ATOM	1175	O	GLN	77	-8.922	-10.972	26.275	1.00	0.00
ATOM	1169	CB	GLN	77	-10.105	-14.054	26.061	1.00	0.00
ATOM	1170	CG	GLN	77	-11.544	-14.548	26.039	1.00	0.00
ATOM	1171	CD	GLN	77	-11.917	-15.185	24.715	1.00	0.00
ATOM	1172	OE1	GLN	77	-11.153	-15.977	24.159	1.00	0.00
ATOM	1173	NE2	GLN	77	-13.087	-14.845	24.199	1.00	0.00
ATOM	1176	H	GLN	77	-9.458	-14.277	23.602	1.00	0.00
ATOM	1177	HA	GLN	77	-10.732	-12.250	25.081	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.864	-13.764	27.074	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.464	-14.871	25.769	1.00	0.00
ATOM	1180	1HG	GLN	77	-12.203	-13.710	26.218	1.00	0.00



ATOM	1181	2HG	GLN	77	-11.672	-15.279	26.823	1.00	0.00
ATOM	1182	1HE2	GLN	77	-13.651	-14.203	24.698	1.00	0.00
ATOM	1183	2HE2	GLN	77	-13.347	-15.235	23.335	1.00	0.00
ATOM	1184	N	ARG	78	-7.481	-12.469	25.421	1.00	0.00
ATOM	1185	CA	ARG	78	-6.298	-11.748	25.859	1.00	0.00
ATOM	1193	C	ARG	78	-6.237	-10.387	25.174	1.00	0.00
ATOM	1194	O	ARG	78	-5.980	-9.368	25.818	1.00	0.00
ATOM	1186	CB	ARG	78	-5.035	-12.555	25.545	1.00	0.00
ATOM	1187	CG	ARG	78	-4.778	-13.701	26.514	1.00	0.00
ATOM	1188	CD	ARG	78	-4.012	-14.837	25.848	1.00	0.00
ATOM	1189	NE	ARG	78	-4.540	-16.155	26.217	1.00	0.00
ATOM	1190	CZ	ARG	78	-4.154	-17.305	25.655	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.207	-17.308	24.720	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.706	-18.453	26.034	1.00	0.00
ATOM	1195	H	ARG	78	-7.373	-13.300	24.916	1.00	0.00
ATOM	1196	HA	ARG	78	-6.375	-11.598	26.925	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.182	-11.891	25.575	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.122	-12.968	24.551	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.728	-14.077	26.868	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.201	-13.332	27.348	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.975	-14.778	26.147	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.082	-14.721	24.777	1.00	0.00
ATOM	1203	HE	ARG	78	-5.236	-16.178	26.924	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.780	-16.449	24.436	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.917	-18.171	24.297	1.00	0.00
ATOM	1206	1HH2	ARG	78	-5.418	-18.467	26.749	1.00	0.00
ATOM	1207	2HH2	ARG	78	-4.424	-19.315	25.607	1.00	0.00
ATOM	1208	N	PHE	79	-6.491	-10.378	23.870	1.00	0.00
ATOM	1209	CA	PHE	79	-6.477	-9.146	23.098	1.00	0.00
ATOM	1217	C	PHE	79	-7.556	-8.194	23.594	1.00	0.00
ATOM	1218	O	PHE	79	-7.278	-7.027	23.864	1.00	0.00
ATOM	1210	CB	PHE	79	-6.680	-9.435	21.611	1.00	0.00
ATOM	1211	CG	PHE	79	-6.123	-8.367	20.713	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.756	-8.151	20.634	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.967	-7.578	19.948	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.242	-7.169	19.809	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.459	-6.595	19.121	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.095	-6.389	19.051	1.00	0.00
ATOM	1219	H	PHE	79	-6.700	-11.224	23.416	1.00	0.00
ATOM	1220	HA	PHE	79	-5.513	-8.682	23.236	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.737	-9.523	21.408	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.192	-10.365	21.363	1.00	0.00
ATOM	1223	HD1	PHE	79	-8.035	-7.739	20.001	1.00	0.00
ATOM	1224	HD2	PHE	79	-4.089	-8.760	21.226	1.00	0.00
ATOM	1225	HE1	PHE	79	-7.128	-5.988	18.529	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.175	-7.010	19.756	1.00	0.00
ATOM	1227	H2	PHE	79	-4.696	-5.621	18.405	1.00	0.00
ATOM	1228	N	THR	80	-8.787	-8.689	23.711	1.00	0.00
ATOM	1229	CA	THR	80	-9.895	-7.860	24.176	1.00	0.00
ATOM	1233	C	THR	80	-9.593	-7.238	25.543	1.00	0.00
ATOM	1234	O	THR	80	-10.003	-6.111	25.816	1.00	0.00
ATOM	1230	CB	THR	80	-11.219	-8.645	24.256	1.00	0.00
ATOM	1231	OG1	THR	80	-11.006	-9.942	24.829	1.00	0.00
ATOM	1232	CG2	THR	80	-11.845	-8.792	22.877	1.00	0.00
ATOM	1235	H	THR	80	-8.956	-9.635	23.469	1.00	0.00
ATOM	1236	HA	THR	80	-10.023	-7.060	23.459	1.00	0.00
ATOM	1237	HB	THR	80	-11.903	-8.094	24.885	1.00	0.00
ATOM	1238	HG1	THR	80	-10.217	-9.930	25.379	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.475	-9.692	22.408	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.586	-7.937	22.270	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.919	-8.852	22.974	1.00	0.00
ATOM	1242	N	GLN	81	-8.856	-7.969	26.385	1.00	0.00
ATOM	1243	CA	GLN	81	-8.486	-7.479	27.710	1.00	0.00
ATOM	1249	C	GLN	81	-7.671	-6.207	27.599	1.00	0.00
ATOM	1250	O	GLN	81	-8.108	-5.131	28.000	1.00	0.00
ATOM	1244	CB	GLN	81	-7.659	-8.523	28.462	1.00	0.00
ATOM	1245	CG	GLN	81	-8.482	-9.659	29.026	1.00	0.00
ATOM	1246	CD	GLN	81	-9.062	-9.342	30.388	1.00	0.00
ATOM	1247	OE1	GLN	81	-10.021	-9.976	30.827	1.00	0.00
ATOM	1248	NE2	GLN	81	-8.494	-8.357	31.066	1.00	0.00
ATOM	1251	H	GLN	81	-8.540	-8.855	26.101	1.00	0.00
ATOM	1252	HA	GLN	81	-9.389	-7.274	28.263	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.146	-8.039	29.280	1.00	0.00



ATOM	1254	2HB	GLN	81	-6.926	-8.939	27.786	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.854	-10.534	29.112	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.289	-9.862	28.343	1.00	0.00
ATOM	1257	1HE2	GLN	81	-7.733	-7.885	30.657	1.00	0.00
ATOM	1258	2HE2	GLN	81	-8.850	-8.134	31.953	1.00	0.00
ATOM	1259	N	VAL	82	-6.480	-6.358	27.045	1.00	0.00
ATOM	1260	CA	VAL	82	-5.561	-5.242	26.870	1.00	0.00
ATOM	1264	C	VAL	82	-6.194	-4.112	26.067	1.00	0.00
ATOM	1265	O	VAL	82	-5.907	-2.949	26.310	1.00	0.00
ATOM	1261	CB	VAL	82	-4.243	-5.693	26.202	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.650	-6.862	26.963	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.444	-6.059	24.736	1.00	0.00
ATOM	1266	H	VAL	82	-6.209	-7.254	26.752	1.00	0.00
ATOM	1267	HA	VAL	82	-5.316	-4.863	27.859	1.00	0.00
ATOM	1268	HB	VAL	82	-3.544	-4.873	26.251	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.442	-7.422	27.439	1.00	0.00
ATOM	1270	2HG1	VAL	82	-2.968	-6.492	27.715	1.00	0.00
ATOM	1271	3HG1	VAL	82	-3.116	-7.504	26.278	1.00	0.00
ATOM	1272	1HG2	VAL	82	-4.042	-7.045	24.552	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.935	-5.340	24.112	1.00	0.00
ATOM	1274	3HG2	VAL	82	-5.500	-6.052	24.506	1.00	0.00
ATOM	1275	N	SER	83	-7.069	-4.453	25.127	1.00	0.00
ATOM	1276	CA	SER	83	-7.737	-3.443	24.322	1.00	0.00
ATOM	1279	C	SER	83	-8.656	-2.596	25.191	1.00	0.00
ATOM	1280	O	SER	83	-8.669	-1.371	25.079	1.00	0.00
ATOM	1277	CB	SER	83	-8.531	-4.094	23.192	1.00	0.00
ATOM	1278	CG	SER	83	-7.686	-4.872	22.361	1.00	0.00
ATOM	1281	H	SER	83	-7.275	-5.401	24.981	1.00	0.00
ATOM	1282	HA	SER	83	-6.978	-2.803	23.895	1.00	0.00
ATOM	1283	1HB	SER	83	-8.996	-3.326	22.592	1.00	0.00
ATOM	1284	2HB	SER	83	-9.292	-4.734	23.614	1.00	0.00
ATOM	1285	HG	SER	83	-7.365	-5.636	22.858	1.00	0.00
ATOM	1286	N	ASP	84	-9.403	-3.253	26.073	1.00	0.00
ATOM	1287	CA	ASP	84	-10.307	-2.545	26.973	1.00	0.00
ATOM	1292	C	ASP	84	-9.501	-1.784	28.015	1.00	0.00
ATOM	1293	O	ASP	84	-9.845	-0.666	28.392	1.00	0.00
ATOM	1288	CB	ASP	84	-11.283	-3.513	27.651	1.00	0.00
ATOM	1289	CG	ASP	84	-12.712	-2.997	27.645	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.238	-2.690	26.549	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.317	-2.900	28.733	1.00	0.00
ATOM	1294	H	ASP	84	-9.334	-4.234	26.131	1.00	0.00
ATOM	1295	HA	ASP	84	-10.868	-1.834	26.383	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.979	-3.663	28.677	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.262	-4.460	27.131	1.00	0.00
ATOM	1298	N	GLU	85	-8.403	-2.391	28.453	1.00	0.00
ATOM	1299	CA	GLU	85	-7.518	-1.772	29.430	1.00	0.00
ATOM	1305	C	GLU	85	-6.827	-0.554	28.809	1.00	0.00
ATOM	1306	O	GLU	85	-6.492	0.407	29.500	1.00	0.00
ATOM	1300	CB	GLU	85	-6.479	-2.788	29.926	1.00	0.00
ATOM	1301	CG	GLU	85	-6.821	-3.402	31.275	1.00	0.00
ATOM	1302	CD	GLU	85	-7.271	-4.853	31.171	1.00	0.00
ATOM	1303	OE1	GLU	85	-6.536	-5.671	30.579	1.00	0.00
ATOM	1304	OE2	GLU	85	-8.359	-5.183	31.697	1.00	0.00
ATOM	1307	H	GLU	85	-8.173	-3.279	28.096	1.00	0.00
ATOM	1308	HA	GLU	85	-8.120	-1.444	30.264	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.523	-2.295	30.012	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.401	-3.585	29.203	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.616	-2.826	31.726	1.00	0.00
ATOM	1312	2HG	GLU	85	-5.945	-3.358	31.906	1.00	0.00
ATOM	1313	N	LEU	86	-6.634	-0.603	27.493	1.00	0.00
ATOM	1314	CA	LEU	86	-6.003	0.486	26.753	1.00	0.00
ATOM	1319	C	LEU	86	-7.018	1.593	26.470	1.00	0.00
ATOM	1320	O	LEU	86	-6.671	2.771	26.407	1.00	0.00
ATOM	1315	CB	LEU	86	-5.423	-0.038	25.433	1.00	0.00
ATOM	1316	CG	LEU	86	-3.908	-0.272	25.425	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.578	-1.617	24.794	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.194	0.845	24.683	1.00	0.00
ATOM	1321	H	LEU	86	-6.933	-1.400	27.002	1.00	0.00
ATOM	1322	HA	LEU	86	-5.203	0.885	27.359	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.659	0.670	24.653	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.909	-0.974	25.201	1.00	0.00
ATOM	1325	HG	LEU	86	-3.548	-0.284	26.444	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.696	-1.550	23.723	1.00	0.00



ATOM	1327	2HD1	LEU	86	-4.249	-2.371	25.182	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.560	-1.886	25.030	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.469	1.797	25.112	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.476	0.825	23.641	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.124	0.707	24.770	1.00	0.00
ATOM	1332	N	PHE	87	-8.274	1.202	26.299	1.00	0.00
ATOM	1333	CA	PHE	87	-9.349	2.150	26.023	1.00	0.00
ATOM	1341	C	PHE	87	-10.032	2.578	27.320	1.00	0.00
ATOM	1342	O	PHE	87	-10.999	3.337	27.308	1.00	0.00
ATOM	1334	CB	PHE	87	-10.370	1.519	25.068	1.00	0.00
ATOM	1335	CG	PHE	87	-11.333	2.499	24.456	1.00	0.00
ATOM	1336	CD1	PHE	87	-10.910	3.403	23.498	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.662	2.516	24.845	1.00	0.00
ATOM	1338	CE1	PHE	87	-11.796	4.306	22.938	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.551	3.415	24.290	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.117	4.313	23.337	1.00	0.00
ATOM	1343	H	PHE	87	-8.489	0.244	26.357	1.00	0.00
ATOM	1344	HA	PHE	87	-8.916	3.021	25.553	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.945	0.781	25.608	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.841	1.032	24.262	1.00	0.00
ATOM	1347	HD1	PHE	87	-9.876	3.400	23.186	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.004	1.813	25.591	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.453	5.006	22.191	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.584	3.418	24.604	1.00	0.00
ATOM	1351	HZ	PHE	87	-13.809	5.018	22.901	1.00	0.00
ATOM	1352	N	GLN	88	-9.526	2.067	28.436	1.00	0.00
ATOM	1353	CA	GLN	88	-10.079	2.364	29.755	1.00	0.00
ATOM	1359	C	GLN	88	-10.134	3.866	30.035	1.00	0.00
ATOM	1360	O	GLN	88	-10.947	4.316	30.843	1.00	0.00
ATOM	1354	CB	GLN	88	-9.262	1.665	30.838	1.00	0.00
ATOM	1355	CG	GLN	88	-10.110	0.884	31.824	1.00	0.00
ATOM	1356	CD	GLN	88	-10.044	1.449	33.228	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.554	0.796	34.149	1.00	0.00
ATOM	1358	NE2	GLN	88	-10.540	2.665	33.407	1.00	0.00
ATOM	1361	H	GLN	88	-8.766	1.449	28.370	1.00	0.00
ATOM	1362	HA	GLN	88	-11.086	1.974	29.780	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.701	2.408	31.385	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.570	0.982	30.368	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.764	-0.139	31.846	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.137	0.906	31.491	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.920	3.132	32.630	1.00	0.00
ATOM	1368	2HE2	GLN	88	-10.516	3.048	34.313	1.00	0.00
ATOM	1369	N	GLY	89	-9.275	4.638	29.378	1.00	0.00
ATOM	1370	CA	GLY	89	-9.275	6.069	29.592	1.00	0.00
ATOM	1371	C	GLY	89	-8.080	6.766	28.982	1.00	0.00
ATOM	1372	O	GLY	89	-7.314	7.416	29.691	1.00	0.00
ATOM	1373	H	GLY	89	-8.642	4.233	28.749	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.282	6.260	30.656	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.175	6.483	29.161	1.00	0.00
ATOM	1376	N	GLY	90	-7.920	6.658	27.668	1.00	0.00
ATOM	1377	CA	GLY	90	-6.806	7.326	27.025	1.00	0.00
ATOM	1378	C	GLY	90	-6.427	6.761	25.666	1.00	0.00
ATOM	1379	O	GLY	90	-5.281	6.357	25.470	1.00	0.00
ATOM	1380	H	GLY	90	-8.563	6.143	27.136	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.948	7.260	27.676	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.058	8.368	26.900	1.00	0.00
ATOM	1383	N	PRO	91	-7.346	6.752	24.683	1.00	0.00
ATOM	1384	CA	PRO	91	-7.046	6.264	23.339	1.00	0.00
ATOM	1388	C	PRO	91	-6.367	7.336	22.489	1.00	0.00
ATOM	1389	O	PRO	91	-6.652	7.480	21.304	1.00	0.00
ATOM	1385	CB	PRO	91	-8.416	5.930	22.754	1.00	0.00
ATOM	1386	CG	PRO	91	-9.431	6.625	23.600	1.00	0.00
ATOM	1387	CD	PRO	91	-8.727	7.242	24.786	1.00	0.00
ATOM	1390	HA	PRO	91	-6.431	5.377	23.365	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.557	4.861	22.768	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.465	6.292	21.738	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.178	5.916	23.927	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.900	7.393	23.012	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.182	6.908	25.706	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.754	8.318	24.723	1.00	0.00
ATOM	1397	N	ASN	92	-5.480	8.092	23.118	1.00	0.00
ATOM	1398	CA	ASN	92	-4.761	9.175	22.449	1.00	0.00
ATOM	1403	C	ASN	92	-3.808	8.643	21.386	1.00	0.00



ATOM	1404	O	ASN	92	-3.492	7.456	21.372	1.00	0.00
ATOM	1399	CB	ASN	92	-3.990	10.004	23.473	1.00	0.00
ATOM	1400	CG	ASN	92	-3.949	11.476	23.115	1.00	0.00
ATOM	1401	OD1	ASN	92	-3.717	11.838	21.964	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.169	12.334	24.099	1.00	0.00
ATOM	1405	H	ASN	92	-5.313	7.922	24.067	1.00	0.00
ATOM	1406	HA	ASN	92	-5.494	9.806	21.971	1.00	0.00
ATOM	1407	1HB	ASN	92	-2.975	9.637	23.532	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.462	9.901	24.440	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.347	11.980	24.997	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.143	13.293	23.893	1.00	0.00
ATOM	1411	N	TRP	93	-3.348	9.534	20.503	1.00	0.00
ATOM	1412	CA	TRP	93	-2.425	9.168	19.426	1.00	0.00
ATOM	1423	C	TRP	93	-1.184	8.470	19.975	1.00	0.00
ATOM	1424	O	TRP	93	-0.574	7.657	19.286	1.00	0.00
ATOM	1413	CB	TRP	93	-2.003	10.397	18.612	1.00	0.00
ATOM	1414	CG	TRP	93	-3.117	11.362	18.320	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.231	12.636	18.799	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.264	11.148	17.477	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.371	13.224	18.311	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.023	12.334	17.503	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.727	10.076	16.704	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.212	12.478	16.794	1.00	0.00
ATOM	1421	CZ3	TRP	93	-5.912	10.226	15.997	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.638	11.418	16.049	1.00	0.00
ATOM	1425	H	TRP	93	-3.641	10.471	20.579	1.00	0.00
ATOM	1426	HA	TRP	93	-2.941	8.480	18.771	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.595	10.064	17.666	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.238	10.931	19.154	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.519	13.102	19.463	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.672	14.145	18.508	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.179	9.146	16.652	1.00	0.00
ATOM	1432	H22	TRP	93	-6.786	13.393	16.823	1.00	0.00
ATOM	1433	H23	TRP	93	-6.289	9.416	15.391	1.00	0.00
ATOM	1434	H22	TRP	93	-7.555	11.489	15.483	1.00	0.00
ATOM	1435	N	GLY	94	-0.826	8.770	21.225	1.00	0.00
ATOM	1436	CA	GLY	94	0.320	8.137	21.833	1.00	0.00
ATOM	1437	C	GLY	94	0.085	6.649	22.007	1.00	0.00
ATOM	1438	O	GLY	94	0.981	5.834	21.806	1.00	0.00
ATOM	1439	H	GLY	94	-1.356	9.407	21.741	1.00	0.00
ATOM	1440	1HA	GLY	94	0.494	8.579	22.803	1.00	0.00
ATOM	1441	2HA	GLY	94	1.185	8.300	21.212	1.00	0.00
ATOM	1442	N	ARG	95	-1.144	6.304	22.369	1.00	0.00
ATOM	1443	CA	ARG	95	-1.532	4.915	22.558	1.00	0.00
ATOM	1451	C	ARG	95	-2.000	4.298	21.250	1.00	0.00
ATOM	1452	O	ARG	95	-1.903	3.088	21.064	1.00	0.00
ATOM	1444	CB	ARG	95	-2.628	4.809	23.616	1.00	0.00
ATOM	1445	CG	ARG	95	-2.168	5.218	25.003	1.00	0.00
ATOM	1446	CD	ARG	95	-2.287	4.071	25.987	1.00	0.00
ATOM	1447	NE	ARG	95	-1.093	3.220	25.997	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.867	2.280	26.914	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.752	2.076	27.879	1.00	0.00
ATOM	1450	NH2	ARG	95	0.234	1.539	26.861	1.00	0.00
ATOM	1453	H	ARG	95	-1.818	7.006	22.495	1.00	0.00
ATOM	1454	HA	ARG	95	-0.662	4.377	22.892	1.00	0.00
ATOM	1455	1HB	ARG	95	-2.972	3.786	23.659	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.452	5.446	23.330	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.780	6.039	25.347	1.00	0.00
ATOM	1458	2HG	ARG	95	-1.136	5.531	24.955	1.00	0.00
ATOM	1459	1HD	ARG	95	-3.143	3.469	25.717	1.00	0.00
ATOM	1460	2HD	ARG	95	-2.433	4.477	26.977	1.00	0.00
ATOM	1461	HE	ARG	95	-0.436	3.357	25.281	1.00	0.00
ATOM	1462	1HH1	ARG	95	-2.590	2.626	27.915	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.590	1.374	28.582	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.903	1.679	26.130	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.399	0.833	27.554	1.00	0.00
ATOM	1466	N	LEU	96	-2.503	5.143	20.351	1.00	0.00
ATOM	1467	CA	LEU	96	-2.988	4.703	19.044	1.00	0.00
ATOM	1472	C	LEU	96	-1.900	3.922	18.322	1.00	0.00
ATOM	1473	O	LEU	96	-2.174	2.979	17.571	1.00	0.00
ATOM	1468	CB	LEU	96	-3.413	5.920	18.211	1.00	0.00
ATOM	1469	CG	LEU	96	-4.433	5.655	17.094	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.723	5.467	15.764	1.00	0.00



ATOM	1471	CD2	LEU	96	-5.300	4.445	17.414	1.00	0.00
ATOM	1474	H	LEU	96	-2.548	6.098	20.575	1.00	0.00
ATOM	1475	HA	LEU	96	-3.842	4.060	19.201	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.527	6.344	17.761	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.836	6.654	18.882	1.00	0.00
ATOM	1478	HG	LEU	96	-5.080	6.516	17.001	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.294	6.407	15.448	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.430	5.126	15.023	1.00	0.00
ATOM	1481	3HD1	LEU	96	-2.938	4.734	15.877	1.00	0.00
ATOM	1482	1HD2	LEU	96	-5.607	4.487	18.448	1.00	0.00
ATOM	1483	2HD2	LEU	96	-4.735	3.542	17.241	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.174	4.451	16.778	1.00	0.00
ATOM	1485	N	VAL	97	-0.660	4.303	18.594	1.00	0.00
ATOM	1486	CA	VAL	97	0.487	3.637	18.015	1.00	0.00
ATOM	1490	C	VAL	97	0.512	2.185	18.464	1.00	0.00
ATOM	1491	O	VAL	97	0.523	1.265	17.649	1.00	0.00
ATOM	1487	CB	VAL	97	1.802	4.295	18.454	1.00	0.00
ATOM	1488	CG1	VAL	97	2.957	3.692	17.686	1.00	0.00
ATOM	1489	CG2	VAL	97	1.753	5.803	18.269	1.00	0.00
ATOM	1492	H	VAL	97	-0.518	5.039	19.230	1.00	0.00
ATOM	1493	HA	VAL	97	0.418	3.691	16.933	1.00	0.00
ATOM	1494	HB	VAL	97	1.952	4.087	19.504	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.926	4.035	16.663	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.880	2.615	17.709	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.889	3.995	18.140	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.727	6.118	18.153	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.314	6.075	17.387	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.183	6.287	19.133	1.00	0.00
ATOM	1501	N	ALA	98	0.505	2.002	19.780	1.00	0.00
ATOM	1502	CA	ALA	98	0.523	0.680	20.386	1.00	0.00
ATOM	1504	C	ALA	98	-0.733	-0.109	20.040	1.00	0.00
ATOM	1505	O	ALA	98	-0.694	-1.330	19.969	1.00	0.00
ATOM	1503	CB	ALA	98	0.674	0.795	21.895	1.00	0.00
ATOM	1506	H	ALA	98	0.483	2.788	20.363	1.00	0.00
ATOM	1507	HA	ALA	98	1.384	0.151	20.003	1.00	0.00
ATOM	1508	1HB	ALA	98	0.703	1.837	22.175	1.00	0.00
ATOM	1509	2HB	ALA	98	1.592	0.315	22.201	1.00	0.00
ATOM	1510	3HB	ALA	98	-0.163	0.315	22.378	1.00	0.00
ATOM	1511	N	PHE	99	-1.841	0.595	19.818	1.00	0.00
ATOM	1512	CA	PHE	99	-3.101	-0.047	19.470	1.00	0.00
ATOM	1520	C	PHE	99	-2.922	-0.922	18.237	1.00	0.00
ATOM	1521	O	PHE	99	-3.230	-2.114	18.253	1.00	0.00
ATOM	1513	CB	PHE	99	-4.174	1.012	19.182	1.00	0.00
ATOM	1514	CG	PHE	99	-5.028	1.418	20.356	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.751	0.482	21.083	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.128	2.752	20.712	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.551	0.877	22.145	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.926	3.153	21.765	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.639	2.218	22.483	1.00	0.00
ATOM	1522	H	PHE	99	-1.809	1.573	19.885	1.00	0.00
ATOM	1523	HA	PHE	99	-3.406	-0.666	20.297	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.827	0.636	18.413	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.687	1.904	18.816	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.571	3.490	20.152	1.00	0.00
ATOM	1527	HD2	PHE	99	-5.683	-0.563	20.820	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.991	4.199	22.027	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.107	0.141	22.705	1.00	0.00
ATOM	1530	H2	PHE	99	-7.268	2.535	23.306	1.00	0.00
ATOM	1531	N	PHE	100	-2.416	-0.319	17.172	1.00	0.00
ATOM	1532	CA	PHE	100	-2.194	-1.044	15.931	1.00	0.00
ATOM	1540	C	PHE	100	-0.934	-1.896	16.016	1.00	0.00
ATOM	1541	O	PHE	100	-0.878	-2.996	15.462	1.00	0.00
ATOM	1533	CB	PHE	100	-2.092	-0.072	14.759	1.00	0.00
ATOM	1534	CG	PHE	100	-3.397	0.140	14.053	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.402	0.883	14.646	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.621	-0.406	12.799	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.605	1.083	14.001	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.824	-0.210	12.150	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.818	0.535	12.753	1.00	0.00
ATOM	1542	H	PHE	100	-2.186	0.638	17.223	1.00	0.00
ATOM	1543	HA	PHE	100	-3.041	-1.694	15.775	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.382	-0.456	14.041	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.750	0.885	15.122	1.00	0.00



ATOM	1546	HD1	PHE	100	-4.238	1.314	15.623	1.00	0.00
ATOM	1547	HD2	PHE	100	-2.843	-0.988	12.328	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.381	1.665	14.475	1.00	0.00
ATOM	1549	HE2	PHE	100	-4.987	-0.639	11.172	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.760	0.691	12.249	1.00	0.00
ATOM	1551	N	VAL	101	0.073	-1.383	16.713	1.00	0.00
ATOM	1552	CA	VAL	101	1.338	-2.091	16.873	1.00	0.00
ATOM	1556	C	VAL	101	1.132	-3.430	17.580	1.00	0.00
ATOM	1557	O	VAL	101	1.753	-4.427	17.209	1.00	0.00
ATOM	1553	CB	VAL	101	2.374	-1.228	17.645	1.00	0.00
ATOM	1554	CG1	VAL	101	3.369	-2.088	18.418	1.00	0.00
ATOM	1555	CG2	VAL	101	3.110	-0.306	16.686	1.00	0.00
ATOM	1558	H	VAL	101	-0.036	-0.500	17.131	1.00	0.00
ATOM	1559	HA	VAL	101	1.732	-2.281	15.884	1.00	0.00
ATOM	1560	HB	VAL	101	1.839	-0.615	18.356	1.00	0.00
ATOM	1561	1HG1	VAL	101	4.358	-1.664	18.323	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.367	-3.091	18.015	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.087	-2.117	19.459	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.831	0.718	16.886	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.849	-0.560	15.670	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.176	-0.422	16.824	1.00	0.00
ATOM	1567	N	PHE	102	0.259	-3.448	18.588	1.00	0.00
ATOM	1568	CA	PHE	102	-0.020	-4.667	19.342	1.00	0.00
ATOM	1576	C	PHE	102	-0.451	-5.801	18.422	1.00	0.00
ATOM	1577	O	PHE	102	0.092	-6.903	18.484	1.00	0.00
ATOM	1569	CB	PHE	102	-1.110	-4.412	20.388	1.00	0.00
ATOM	1570	CG	PHE	102	-0.589	-4.238	21.788	1.00	0.00
ATOM	1571	CD1	PHE	102	0.498	-3.416	22.044	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.191	-4.893	22.850	1.00	0.00
ATOM	1573	CE1	PHE	102	0.973	-3.252	23.332	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.719	-4.734	24.138	1.00	0.00
ATOM	1575	CZ	PHE	102	0.362	-3.911	24.380	1.00	0.00
ATOM	1578	H	PHE	102	-0.216	-2.612	18.837	1.00	0.00
ATOM	1579	HA	PHE	102	0.889	-4.958	19.845	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.796	-5.247	20.392	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.649	-3.515	20.124	1.00	0.00
ATOM	1582	HD1	PHE	102	0.976	-2.900	21.224	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.038	-5.538	22.663	1.00	0.00
ATOM	1584	HE1	PHE	102	1.820	-2.608	23.518	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.198	-5.251	24.957	1.00	0.00
ATOM	1586	HZ	PHE	102	0.732	-3.784	25.388	1.00	0.00
ATOM	1587	N	GLY	103	-1.429	-5.528	17.571	1.00	0.00
ATOM	1588	CA	GLY	103	-1.914	-6.545	16.663	1.00	0.00
ATOM	1589	C	GLY	103	-0.974	-6.807	15.507	1.00	0.00
ATOM	1590	O	GLY	103	-0.807	-7.950	15.098	1.00	0.00
ATOM	1591	H	GLY	103	-1.827	-4.631	17.566	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.867	-6.240	16.272	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.045	-7.464	17.213	1.00	0.00
ATOM	1594	N	ALA	104	-0.362	-5.756	14.974	1.00	0.00
ATOM	1595	CA	ALA	104	0.559	-5.902	13.852	1.00	0.00
ATOM	1597	C	ALA	104	1.751	-6.768	14.236	1.00	0.00
ATOM	1598	O	ALA	104	2.160	-7.647	13.478	1.00	0.00
ATOM	1596	CB	ALA	104	1.026	-4.541	13.357	1.00	0.00
ATOM	1599	H	ALA	104	-0.536	-4.859	15.341	1.00	0.00
ATOM	1600	HA	ALA	104	0.026	-6.391	13.045	1.00	0.00
ATOM	1601	1HB	ALA	104	0.438	-4.250	12.498	1.00	0.00
ATOM	1602	2HB	ALA	104	2.068	-4.596	13.078	1.00	0.00
ATOM	1603	3HB	ALA	104	0.903	-3.810	14.143	1.00	0.00
ATOM	1604	N	ALA	105	2.292	-6.535	15.425	1.00	0.00
ATOM	1605	CA	ALA	105	3.421	-7.316	15.902	1.00	0.00
ATOM	1607	C	ALA	105	2.967	-8.735	16.223	1.00	0.00
ATOM	1608	O	ALA	105	3.679	-9.706	15.958	1.00	0.00
ATOM	1606	CB	ALA	105	4.046	-6.655	17.120	1.00	0.00
ATOM	1609	H	ALA	105	1.915	-5.828	16.003	1.00	0.00
ATOM	1610	HA	ALA	105	4.160	-7.351	15.115	1.00	0.00
ATOM	1611	1HB	ALA	105	3.918	-7.294	17.982	1.00	0.00
ATOM	1612	2HB	ALA	105	3.563	-5.706	17.302	1.00	0.00
ATOM	1613	3HB	ALA	105	5.100	-6.495	16.944	1.00	0.00
ATOM	1614	N	LEU	106	1.763	-8.839	16.777	1.00	0.00
ATOM	1615	CA	LEU	106	1.177	-10.126	17.127	1.00	0.00
ATOM	1620	C	LEU	106	1.009	-10.983	15.879	1.00	0.00
ATOM	1621	O	LEU	106	1.327	-12.172	15.869	1.00	0.00
ATOM	1616	CB	LEU	106	-0.184	-9.903	17.797	1.00	0.00



ATOM	1617	CG	LEU	106	-0.495	-10.814	18.983	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.983	-9.991	20.164	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.529	-11.861	18.604	1.00	0.00
ATOM	1622	H	LEU	106	1.245	-8.022	16.946	1.00	0.00
ATOM	1623	HA	LEU	106	1.841	-10.625	17.815	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.957	-10.033	17.053	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.218	-8.880	18.143	1.00	0.00
ATOM	1626	HG	LEU	106	0.408	-11.325	19.282	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.240	-9.251	20.420	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.150	-10.641	21.011	1.00	0.00
ATOM	1629	3HD1	LEU	106	-1.907	-9.497	19.901	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.783	-11.756	17.560	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.417	-11.724	19.206	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.125	-12.847	18.779	1.00	0.00
ATOM	1633	N	CYS	107	0.511	-10.350	14.831	1.00	0.00
ATOM	1634	CA	CYS	107	0.281	-11.003	13.554	1.00	0.00
ATOM	1637	C	CYS	107	1.589	-11.476	12.931	1.00	0.00
ATOM	1638	O	CYS	107	1.677	-12.602	12.453	1.00	0.00
ATOM	1635	CB	CYS	107	-0.440	-10.037	12.614	1.00	0.00
ATOM	1636	SG	CYS	107	-2.143	-9.674	13.099	1.00	0.00
ATOM	1639	H	CYS	107	0.290	-9.401	14.923	1.00	0.00
ATOM	1640	HA	CYS	107	-0.349	-11.860	13.725	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.460	-10.453	11.621	1.00	0.00
ATOM	1642	2HB	CYS	107	0.099	-9.101	12.593	1.00	0.00
ATOM	1643	HG	CYS	107	-2.097	-8.912	14.184	1.00	0.00
ATOM	1644	N	ALA	108	2.599	-10.612	12.940	1.00	0.00
ATOM	1645	CA	ALA	108	3.905	-10.938	12.373	1.00	0.00
ATOM	1647	C	ALA	108	4.449	-12.254	12.926	1.00	0.00
ATOM	1648	O	ALA	108	4.900	-13.119	12.172	1.00	0.00
ATOM	1646	CB	ALA	108	4.888	-9.808	12.643	1.00	0.00
ATOM	1649	H	ALA	108	2.462	-9.724	13.335	1.00	0.00
ATOM	1650	HA	ALA	108	3.788	-11.031	11.302	1.00	0.00
ATOM	1651	1HB	ALA	108	5.896	-10.194	12.610	1.00	0.00
ATOM	1652	2HB	ALA	108	4.695	-9.389	13.619	1.00	0.00
ATOM	1653	3HB	ALA	108	4.771	-9.041	11.891	1.00	0.00
ATOM	1654	N	GLU	109	4.400	-12.405	14.247	1.00	0.00
ATOM	1655	CA	GLU	109	4.896	-13.616	14.894	1.00	0.00
ATOM	1661	C	GLU	109	3.913	-14.776	14.756	1.00	0.00
ATOM	1662	O	GLU	109	4.258	-15.926	15.033	1.00	0.00
ATOM	1656	CB	GLU	109	5.193	-13.354	16.369	1.00	0.00
ATOM	1657	CG	GLU	109	6.679	-13.231	16.669	1.00	0.00
ATOM	1658	CD	GLU	109	7.100	-14.011	17.896	1.00	0.00
ATOM	1659	OE1	GLU	109	6.289	-14.813	18.403	1.00	0.00
ATOM	1660	OE2	GLU	109	8.249	-13.834	18.345	1.00	0.00
ATOM	1663	H	GLU	109	4.028	-11.681	14.800	1.00	0.00
ATOM	1664	HA	GLU	109	5.815	-13.893	14.400	1.00	0.00
ATOM	1665	1HB	GLU	109	4.794	-14.167	16.956	1.00	0.00
ATOM	1666	2HB	GLU	109	4.710	-12.434	16.664	1.00	0.00
ATOM	1667	1HG	GLU	109	6.917	-12.188	16.823	1.00	0.00
ATOM	1668	2HG	GLU	109	7.233	-13.602	15.820	1.00	0.00
ATOM	1669	N	SER	110	2.698	-14.485	14.324	1.00	0.00
ATOM	1670	CA	SER	110	1.693	-15.521	14.148	1.00	0.00
ATOM	1673	C	SER	110	1.782	-16.119	12.744	1.00	0.00
ATOM	1674	O	SER	110	1.390	-17.260	12.518	1.00	0.00
ATOM	1671	CB	SER	110	0.298	-14.953	14.405	1.00	0.00
ATOM	1672	OG	SER	110	0.151	-14.573	15.764	1.00	0.00
ATOM	1675	H	SER	110	2.470	-13.553	14.111	1.00	0.00
ATOM	1676	HA	SER	110	1.894	-16.300	14.868	1.00	0.00
ATOM	1677	1HB	SER	110	-0.444	-15.701	14.171	1.00	0.00
ATOM	1678	2HB	SER	110	0.143	-14.084	13.783	1.00	0.00
ATOM	1679	HG	SER	110	0.591	-13.726	15.911	1.00	0.00
ATOM	1680	N	VAL	111	2.312	-15.338	11.806	1.00	0.00
ATOM	1681	CA	VAL	111	2.461	-15.791	10.428	1.00	0.00
ATOM	1685	C	VAL	111	3.630	-16.766	10.301	1.00	0.00
ATOM	1686	O	VAL	111	3.574	-17.721	9.524	1.00	0.00
ATOM	1682	CB	VAL	111	2.683	-14.606	9.456	1.00	0.00
ATOM	1683	CG1	VAL	111	2.823	-15.098	8.023	1.00	0.00
ATOM	1684	CG2	VAL	111	1.546	-13.605	9.558	1.00	0.00
ATOM	1687	H	VAL	111	2.613	-14.435	12.050	1.00	0.00
ATOM	1688	HA	VAL	111	1.549	-16.296	10.145	1.00	0.00
ATOM	1689	HB	VAL	111	3.601	-14.106	9.732	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.892	-16.176	8.019	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.716	-14.678	7.585	1.00	0.00



ATOM	1692	3HG1	VAL	111	1.961	-14.791	7.451	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.783	-12.866	10.308	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.638	-14.119	9.832	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.410	-13.117	8.604	1.00	0.00
ATOM	1696	N	ASN	112	4.688	-16.524	11.070	1.00	0.00
ATOM	1697	CA	ASN	112	5.868	-17.386	11.037	1.00	0.00
ATOM	1702	C	ASN	112	5.665	-18.629	11.892	1.00	0.00
ATOM	1703	O	ASN	112	6.548	-19.478	11.993	1.00	0.00
ATOM	1698	CB	ASN	112	7.128	-16.624	11.484	1.00	0.00
ATOM	1699	CG	ASN	112	7.088	-16.145	12.929	1.00	0.00
ATOM	1700	OD1	ASN	112	6.950	-16.933	13.864	1.00	0.00
ATOM	1701	ND2	ASN	112	7.224	-14.839	13.119	1.00	0.00
ATOM	1704	H	ASN	112	4.676	-15.749	11.672	1.00	0.00
ATOM	1705	HA	ASN	112	6.005	-17.702	10.013	1.00	0.00
ATOM	1706	1HB	ASN	112	7.258	-15.762	10.846	1.00	0.00
ATOM	1707	2HB	ASN	112	7.984	-17.272	11.372	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.338	-14.262	12.330	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.215	-14.500	14.039	1.00	0.00
ATOM	1710	N	LYS	113	4.492	-18.732	12.496	1.00	0.00
ATOM	1711	CA	LYS	113	4.162	-19.870	13.331	1.00	0.00
ATOM	1717	C	LYS	113	2.839	-20.480	12.883	1.00	0.00
ATOM	1718	O	LYS	113	2.327	-20.152	11.811	1.00	0.00
ATOM	1712	CB	LYS	113	4.080	-19.448	14.799	1.00	0.00
ATOM	1713	CG	LYS	113	5.368	-19.674	15.572	1.00	0.00
ATOM	1714	CD	LYS	113	5.207	-19.317	17.041	1.00	0.00
ATOM	1715	CE	LYS	113	5.946	-18.038	17.391	1.00	0.00
ATOM	1716	NZ	LYS	113	5.019	-16.882	17.493	1.00	0.00
ATOM	1719	H	LYS	113	3.824	-18.028	12.364	1.00	0.00
ATOM	1720	HA	LYS	113	4.945	-20.604	13.217	1.00	0.00
ATOM	1721	1HB	LYS	113	3.294	-20.011	15.280	1.00	0.00
ATOM	1722	2HB	LYS	113	3.835	-18.398	14.845	1.00	0.00
ATOM	1723	1HG	LYS	113	6.146	-19.060	15.146	1.00	0.00
ATOM	1724	2HG	LYS	113	5.645	-20.715	15.494	1.00	0.00
ATOM	1725	1HD	LYS	113	5.596	-20.123	17.642	1.00	0.00
ATOM	1726	2HD	LYS	113	4.157	-19.182	17.256	1.00	0.00
ATOM	1727	1HE	LYS	113	6.676	-17.835	16.621	1.00	0.00
ATOM	1728	2HE	LYS	113	6.449	-18.171	18.337	1.00	0.00
ATOM	1729	1HZ	LYS	113	4.204	-17.125	18.087	1.00	0.00
ATOM	1730	2HZ	LYS	113	4.678	-16.612	16.543	1.00	0.00
ATOM	1731	3HZ	LYS	113	5.513	-16.062	17.919	1.00	0.00
ATOM	1732	N	GLU	114	2.289	-21.358	13.704	1.00	0.00
ATOM	1733	CA	GLU	114	1.025	-22.007	13.391	1.00	0.00
ATOM	1739	C	GLU	114	-0.141	-21.206	13.960	1.00	0.00
ATOM	1740	O	GLU	114	-0.880	-21.680	14.825	1.00	0.00
ATOM	1734	CB	GLU	114	1.014	-23.430	13.945	1.00	0.00
ATOM	1735	CG	GLU	114	2.106	-24.312	13.361	1.00	0.00
ATOM	1736	CD	GLU	114	1.831	-25.786	13.563	1.00	0.00
ATOM	1737	OE1	GLU	114	0.733	-26.248	13.185	1.00	0.00
ATOM	1738	OE2	GLU	114	2.706	-26.488	14.115	1.00	0.00
ATOM	1741	H	GLU	114	2.740	-21.576	14.544	1.00	0.00
ATOM	1742	HA	GLU	114	0.930	-22.048	12.317	1.00	0.00
ATOM	1743	1HB	GLU	114	0.059	-23.882	13.726	1.00	0.00
ATOM	1744	2HB	GLU	114	1.147	-23.389	15.017	1.00	0.00
ATOM	1745	1HG	GLU	114	3.044	-24.067	13.837	1.00	0.00
ATOM	1746	2HG	GLU	114	2.179	-24.119	12.302	1.00	0.00
ATOM	1747	N	MET	115	-0.293	-19.982	13.477	1.00	0.00
ATOM	1748	CA	MET	115	-1.358	-19.105	13.935	1.00	0.00
ATOM	1753	C	MET	115	-1.915	-18.307	12.762	1.00	0.00
ATOM	1754	O	MET	115	-2.246	-17.128	12.897	1.00	0.00
ATOM	1749	CB	MET	115	-0.840	-18.151	15.019	1.00	0.00
ATOM	1750	CG	MET	115	-0.557	-18.824	16.353	1.00	0.00
ATOM	1751	SD	MET	115	1.208	-18.976	16.695	1.00	0.00
ATOM	1752	CE	MET	115	1.272	-20.602	17.446	1.00	0.00
ATOM	1755	H	MET	115	0.334	-19.657	12.793	1.00	0.00
ATOM	1756	HA	MET	115	-2.145	-19.720	14.348	1.00	0.00
ATOM	1757	1HB	MET	115	-1.575	-17.376	15.180	1.00	0.00
ATOM	1758	2HB	MET	115	0.076	-17.697	14.671	1.00	0.00
ATOM	1759	1HG	MET	115	-0.995	-19.811	16.342	1.00	0.00
ATOM	1760	2HG	MET	115	-1.013	-18.239	17.138	1.00	0.00
ATOM	1761	1HE	MET	115	0.271	-20.999	17.528	1.00	0.00
ATOM	1762	2HE	MET	115	1.712	-20.529	18.430	1.00	0.00
ATOM	1763	3HE	MET	115	1.871	-21.260	16.833	1.00	0.00
ATOM	1764	N	GLU	116	-2.005	-18.959	11.610	1.00	0.00



ATOM	1765	CA	GLU	116	-2.506	-18.325	10.390	1.00	0.00
ATOM	1771	C	GLU	116	-3.907	-17.725	10.578	1.00	0.00
ATOM	1772	O	GLU	116	-4.102	-16.534	10.332	1.00	0.00
ATOM	1766	CB	GLU	116	-2.502	-19.314	9.215	1.00	0.00
ATOM	1767	CG	GLU	116	-1.328	-20.282	9.229	1.00	0.00
ATOM	1768	CD	GLU	116	-1.649	-21.581	9.942	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.541	-21.618	11.183	1.00	0.00
ATOM	1770	OE2	GLU	116	-2.019	-22.559	9.265	1.00	0.00
ATOM	1773	H	GLU	116	-1.718	-19.906	11.574	1.00	0.00
ATOM	1774	HA	GLU	116	-1.828	-17.519	10.155	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.468	-18.755	8.292	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.416	-19.890	9.241	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.496	-19.810	9.730	1.00	0.00
ATOM	1778	2HG	GLU	116	-1.054	-20.507	8.210	1.00	0.00
ATOM	1779	N	PRO	117	-4.912	-18.519	11.013	1.00	0.00
ATOM	1780	CA	PRO	117	-6.277	-18.013	11.209	1.00	0.00
ATOM	1784	C	PRO	117	-6.355	-16.970	12.320	1.00	0.00
ATOM	1785	O	PRO	117	-7.310	-16.199	12.397	1.00	0.00
ATOM	1781	CB	PRO	117	-7.083	-19.259	11.597	1.00	0.00
ATOM	1782	CG	PRO	117	-6.236	-20.417	11.193	1.00	0.00
ATOM	1783	CD	PRO	117	-4.819	-19.955	11.335	1.00	0.00
ATOM	1786	HA	PRO	117	-6.674	-17.593	10.297	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.025	-19.257	11.069	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.264	-19.254	12.661	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.443	-20.684	10.167	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.425	-21.256	11.847	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.180	-20.467	10.632	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.470	-20.103	12.348	1.00	0.00
ATOM	1793	N	LEU	118	-5.342	-16.946	13.174	1.00	0.00
ATOM	1794	CA	LEU	118	-5.301	-15.996	14.276	1.00	0.00
ATOM	1799	C	LEU	118	-4.959	-14.600	13.771	1.00	0.00
ATOM	1800	O	LEU	118	-5.461	-13.609	14.290	1.00	0.00
ATOM	1795	CB	LEU	118	-4.281	-16.438	15.332	1.00	0.00
ATOM	1796	CG	LEU	118	-4.845	-17.287	16.479	1.00	0.00
ATOM	1797	CD1	LEU	118	-6.080	-16.629	17.080	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.170	-18.692	15.992	1.00	0.00
ATOM	1801	H	LEU	118	-4.603	-17.580	13.057	1.00	0.00
ATOM	1802	HA	LEU	118	-6.282	-15.972	14.725	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.832	-15.554	15.759	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.508	-17.010	14.839	1.00	0.00
ATOM	1805	HG	LEU	118	-4.101	-17.367	17.258	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.096	-15.583	16.810	1.00	0.00
ATOM	1807	2HD1	LEU	118	-6.051	-16.722	18.155	1.00	0.00
ATOM	1808	3HD1	LEU	118	-6.967	-17.112	16.699	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.737	-18.843	15.015	1.00	0.00
ATOM	1810	2HD2	LEU	118	-6.241	-18.814	15.934	1.00	0.00
ATOM	1811	3HD2	LEU	118	-4.763	-19.416	16.683	1.00	0.00
ATOM	1812	N	VAL	119	-4.104	-14.539	12.754	1.00	0.00
ATOM	1813	CA	VAL	119	-3.678	-13.271	12.163	1.00	0.00
ATOM	1817	C	VAL	119	-4.873	-12.432	11.718	1.00	0.00
ATOM	1818	O	VAL	119	-5.047	-11.296	12.163	1.00	0.00
ATOM	1814	CB	VAL	119	-2.749	-13.510	10.954	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.396	-12.200	10.268	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.489	-14.244	11.382	1.00	0.00
ATOM	1819	H	VAL	119	-3.743	-15.375	12.386	1.00	0.00
ATOM	1820	HA	VAL	119	-3.127	-12.719	12.912	1.00	0.00
ATOM	1821	HB	VAL	119	-3.273	-14.131	10.242	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.875	-11.382	10.786	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.738	-12.228	9.244	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.325	-12.061	10.287	1.00	0.00
ATOM	1825	1HG2	VAL	119	-0.723	-13.526	11.636	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.142	-14.867	10.570	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.704	-14.860	12.243	1.00	0.00
ATOM	1828	N	GLY	120	-5.697	-12.996	10.842	1.00	0.00
ATOM	1829	CA	GLY	120	-6.862	-12.278	10.362	1.00	0.00
ATOM	1830	C	GLY	120	-7.824	-11.950	11.480	1.00	0.00
ATOM	1831	O	GLY	120	-8.499	-10.920	11.440	1.00	0.00
ATOM	1832	H	GLY	120	-5.513	-13.904	10.521	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.368	-12.872	9.623	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.537	-11.357	9.902	1.00	0.00
ATOM	1835	N	GLN	121	-7.879	-12.812	12.490	1.00	0.00
ATOM	1836	CA	GLN	121	-8.754	-12.581	13.625	1.00	0.00
ATOM	1842	C	GLN	121	-8.280	-11.359	14.392	1.00	0.00



ATOM	1843	O	GLN	121	-9.057	-10.461	14.661	1.00	0.00
ATOM	1837	CB	GLN	121	-8.811	-13.800	14.544	1.00	0.00
ATOM	1838	CG	GLN	121	-9.919	-14.779	14.188	1.00	0.00
ATOM	1839	CD	GLN	121	-11.212	-14.491	14.929	1.00	0.00
ATOM	1840	OE1	GLN	121	-11.374	-14.860	16.093	1.00	0.00
ATOM	1841	NE2	GLN	121	-12.138	-13.816	14.271	1.00	0.00
ATOM	1844	H	GLN	121	-7.309	-13.609	12.474	1.00	0.00
ATOM	1845	HA	GLN	121	-9.744	-12.380	13.242	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.974	-13.462	15.556	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.871	-14.318	14.497	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.593	-15.778	14.437	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.109	-14.717	13.128	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.943	-13.536	13.340	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.979	-13.612	14.727	1.00	0.00
ATOM	1852	N	VAL	122	-6.993	-11.307	14.714	1.00	0.00
ATOM	1853	CA	VAL	122	-6.440	-10.158	15.427	1.00	0.00
ATOM	1857	C	VAL	122	-6.703	-8.885	14.632	1.00	0.00
ATOM	1858	O	VAL	122	-6.984	-7.830	15.200	1.00	0.00
ATOM	1854	CB	VAL	122	-4.918	-10.310	15.668	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.368	-9.117	16.432	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.604	-11.599	16.410	1.00	0.00
ATOM	1859	H	VAL	122	-6.398	-12.046	14.452	1.00	0.00
ATOM	1860	HA	VAL	122	-6.945	-10.079	16.386	1.00	0.00
ATOM	1861	HB	VAL	122	-4.425	-10.348	14.706	1.00	0.00
ATOM	1862	1HG1	VAL	122	-5.059	-8.291	16.358	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.416	-8.829	16.012	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.238	-9.386	17.471	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.413	-11.833	17.088	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.689	-11.478	16.970	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.487	-12.405	15.700	1.00	0.00
ATOM	1868	N	GLN	123	-6.638	-9.007	13.314	1.00	0.00
ATOM	1869	CA	GLN	123	-6.888	-7.881	12.433	1.00	0.00
ATOM	1875	C	GLN	123	-8.317	-7.373	12.602	1.00	0.00
ATOM	1876	O	GLN	123	-8.544	-6.166	12.713	1.00	0.00
ATOM	1870	CB	GLN	123	-6.637	-8.276	10.975	1.00	0.00
ATOM	1871	CG	GLN	123	-6.186	-7.112	10.108	1.00	0.00
ATOM	1872	CD	GLN	123	-5.778	-7.542	8.714	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.476	-8.313	8.060	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.644	-7.042	8.247	1.00	0.00
ATOM	1877	H	GLN	123	-6.425	-9.885	12.924	1.00	0.00
ATOM	1878	HA	GLN	123	-6.209	-7.090	12.708	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.549	-8.678	10.558	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.874	-9.043	10.944	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.342	-6.633	10.582	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.999	-6.406	10.025	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.139	-6.427	8.819	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.358	-7.308	7.349	1.00	0.00
ATOM	1885	N	GLU	124	-9.278	-8.289	12.635	1.00	0.00
ATOM	1886	CA	GLU	124	-10.671	-7.901	12.800	1.00	0.00
ATOM	1892	C	GLU	124	-10.968	-7.522	14.247	1.00	0.00
ATOM	1893	O	GLU	124	-11.714	-6.578	14.481	1.00	0.00
ATOM	1887	CB	GLU	124	-11.622	-8.991	12.310	1.00	0.00
ATOM	1888	CG	GLU	124	-11.347	-10.348	12.909	1.00	0.00
ATOM	1889	CD	GLU	124	-12.309	-11.411	12.420	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.532	-11.208	12.528	1.00	0.00
ATOM	1891	OE2	GLU	124	-11.837	-12.460	11.922	1.00	0.00
ATOM	1894	H	GLU	124	-9.045	-9.241	12.553	1.00	0.00
ATOM	1895	HA	GLU	124	-10.824	-7.021	12.191	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.537	-9.070	11.237	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.634	-8.709	12.562	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.420	-10.269	13.986	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.343	-10.643	12.642	1.00	0.00
ATOM	1900	N	TRP	125	-10.361	-8.220	15.219	1.00	0.00
ATOM	1901	CA	TRP	125	-10.573	-7.879	16.630	1.00	0.00
ATOM	1912	C	TRP	125	-10.189	-6.421	16.833	1.00	0.00
ATOM	1913	O	TRP	125	-10.824	-5.680	17.584	1.00	0.00
ATOM	1902	CB	TRP	125	-9.694	-8.705	17.595	1.00	0.00
ATOM	1903	CG	TRP	125	-9.773	-10.206	17.511	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.768	-10.990	16.993	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.769	-11.108	17.993	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.426	-12.321	17.116	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.203	-12.414	17.717	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.535	-10.929	18.626	1.00	0.00



ATOM	1909	CZ2	TRP	125	-8.446	-13.536	18.044	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.787	-12.042	18.955	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.241	-13.332	18.658	1.00	0.00
ATOM	1914	H	TRP	125	-9.745	-8.959	14.983	1.00	0.00
ATOM	1915	HA	TRP	125	-11.617	-8.009	16.865	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.940	-8.424	18.604	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.665	-8.439	17.417	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.674	-10.615	16.552	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.971	-13.083	16.817	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.172	-9.943	18.877	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.783	-14.537	17.822	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.830	-11.922	19.440	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.623	-14.174	18.941	1.00	0.00
ATOM	1924	N	MET	126	-9.124	-6.035	16.151	1.00	0.00
ATOM	1925	CA	MET	126	-8.606	-4.681	16.243	1.00	0.00
ATOM	1930	C	MET	126	-9.501	-3.687	15.521	1.00	0.00
ATOM	1931	O	MET	126	-9.933	-2.695	16.107	1.00	0.00
ATOM	1926	CB	MET	126	-7.193	-4.623	15.669	1.00	0.00
ATOM	1927	CG	MET	126	-6.391	-3.417	16.123	1.00	0.00
ATOM	1928	SD	MET	126	-5.167	-2.911	14.900	1.00	0.00
ATOM	1929	CE	MET	126	-4.207	-4.414	14.726	1.00	0.00
ATOM	1932	H	MET	126	-8.666	-6.695	15.570	1.00	0.00
ATOM	1933	HA	MET	126	-8.571	-4.411	17.286	1.00	0.00
ATOM	1934	1HB	MET	126	-7.258	-4.596	14.591	1.00	0.00
ATOM	1935	2HB	MET	126	-6.660	-5.513	15.966	1.00	0.00
ATOM	1936	1HG	MET	126	-5.882	-3.663	17.044	1.00	0.00
ATOM	1937	2HG	MET	126	-7.070	-2.594	16.298	1.00	0.00
ATOM	1938	1HE	MET	126	-3.224	-4.171	14.352	1.00	0.00
ATOM	1939	2HE	MET	126	-4.700	-5.081	14.033	1.00	0.00
ATOM	1940	3HE	MET	126	-4.116	-4.898	15.687	1.00	0.00
ATOM	1941	N	VAL	127	-9.766	-3.942	14.248	1.00	0.00
ATOM	1942	CA	VAL	127	-10.595	-3.042	13.457	1.00	0.00
ATOM	1946	C	VAL	127	-12.009	-2.915	14.036	1.00	0.00
ATOM	1947	O	VAL	127	-12.611	-1.849	13.950	1.00	0.00
ATOM	1943	CB	VAL	127	-10.643	-3.457	11.961	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.542	-4.663	11.741	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.094	-2.288	11.095	1.00	0.00
ATOM	1948	H	VAL	127	-9.383	-4.745	13.828	1.00	0.00
ATOM	1949	HA	VAL	127	-10.131	-2.066	13.507	1.00	0.00
ATOM	1950	HB	VAL	127	-9.640	-3.726	11.654	1.00	0.00
ATOM	1951	1HG1	VAL	127	-12.297	-4.694	12.513	1.00	0.00
ATOM	1952	2HG1	VAL	127	-10.949	-5.564	11.780	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.019	-4.588	10.773	1.00	0.00
ATOM	1954	1HG2	VAL	127	-12.125	-2.052	11.315	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.001	-2.554	10.052	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.476	-1.427	11.302	1.00	0.00
ATOM	1957	N	GLU	128	-12.531	-3.981	14.647	1.00	0.00
ATOM	1958	CA	GLU	128	-13.866	-3.925	15.236	1.00	0.00
ATOM	1964	C	GLU	128	-13.874	-2.992	16.439	1.00	0.00
ATOM	1965	O	GLU	128	-14.705	-2.088	16.531	1.00	0.00
ATOM	1959	CB	GLU	128	-14.341	-5.321	15.643	1.00	0.00
ATOM	1960	CG	GLU	128	-14.914	-6.124	14.485	1.00	0.00
ATOM	1961	CD	GLU	128	-15.744	-7.308	14.938	1.00	0.00
ATOM	1962	OE1	GLU	128	-15.981	-7.447	16.157	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.173	-8.098	14.069	1.00	0.00
ATOM	1966	H	GLU	128	-12.006	-4.817	14.713	1.00	0.00
ATOM	1967	HA	GLU	128	-14.534	-3.527	14.493	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.107	-5.224	16.399	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.506	-5.868	16.055	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.095	-6.488	13.880	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.538	-5.476	13.889	1.00	0.00
ATOM	1972	N	TYR	129	-12.925	-3.200	17.343	1.00	0.00
ATOM	1973	CA	TYR	129	-12.801	-2.369	18.533	1.00	0.00
ATOM	1982	C	TYR	129	-12.598	-0.910	18.140	1.00	0.00
ATOM	1983	O	TYR	129	-13.069	0.014	18.812	1.00	0.00
ATOM	1974	CB	TYR	129	-11.608	-2.836	19.369	1.00	0.00
ATOM	1975	CG	TYR	129	-11.682	-2.418	20.820	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.239	-1.164	21.217	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.199	-3.269	21.787	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.306	-0.770	22.534	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.272	-2.880	23.111	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.823	-1.628	23.477	1.00	0.00
ATOM	1981	OH	TYR	129	-11.897	-1.227	24.788	1.00	0.00



ATOM	1984	H	TYR	129	-12.280	-3.929	17.200	1.00	0.00
ATOM	1985	HA	TYR	129	-13.706	-2.462	19.114	1.00	0.00
ATOM	1986	LHB	TYR	129	-10.704	-2.418	18.952	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.549	-3.911	19.330	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.550	-4.248	21.494	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.834	-0.491	20.475	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.676	-3.553	23.853	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.955	0.211	22.823	1.00	0.00
ATOM	1992	HH	TYR	129	-12.362	-1.900	25.315	1.00	0.00
ATOM	1993	N	LEU	130	-11.882	-0.721	17.049	1.00	0.00
ATOM	1994	CA	LEU	130	-11.582	0.608	16.549	1.00	0.00
ATOM	1999	C	LEU	130	-12.799	1.262	15.901	1.00	0.00
ATOM	2000	O	LEU	130	-13.106	2.415	16.184	1.00	0.00
ATOM	1995	CB	LEU	130	-10.436	0.545	15.547	1.00	0.00
ATOM	1996	CG	LEU	130	-9.116	1.134	16.039	1.00	0.00
ATOM	1997	CD1	LEU	130	-8.074	0.041	16.214	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.623	2.202	15.077	1.00	0.00
ATOM	2001	H	LEU	130	-11.535	-1.506	16.568	1.00	0.00
ATOM	2002	HA	LEU	130	-11.270	1.213	17.390	1.00	0.00
ATOM	2003	LHB	LEU	130	-10.737	1.083	14.663	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.269	-0.492	15.283	1.00	0.00
ATOM	2005	HG	LEU	130	-9.275	1.598	17.001	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.174	0.312	15.681	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.459	-0.889	15.823	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.848	-0.076	17.264	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.907	2.837	15.579	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.458	2.798	14.741	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.151	1.732	14.227	1.00	0.00
ATOM	2012	N	GLU	131	-13.471	0.534	15.023	1.00	0.00
ATOM	2013	CA	GLU	131	-14.638	1.060	14.319	1.00	0.00
ATOM	2019	C	GLU	131	-15.737	1.518	15.274	1.00	0.00
ATOM	2020	O	GLU	131	-16.374	2.550	15.051	1.00	0.00
ATOM	2014	CB	GLU	131	-15.205	-0.002	13.371	1.00	0.00
ATOM	2015	CG	GLU	131	-14.463	-0.123	12.048	1.00	0.00
ATOM	2016	CD	GLU	131	-15.159	-1.061	11.078	1.00	0.00
ATOM	2017	OE1	GLU	131	-16.408	-1.059	11.041	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.463	-1.805	10.352	1.00	0.00
ATOM	2021	H	GLU	131	-13.167	-0.382	14.826	1.00	0.00
ATOM	2022	HA	GLU	131	-14.313	1.907	13.738	1.00	0.00
ATOM	2023	LHB	GLU	131	-16.236	0.240	13.158	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.167	-0.960	13.866	1.00	0.00
ATOM	2025	LHG	GLU	131	-13.469	-0.501	12.241	1.00	0.00
ATOM	2026	2HG	GLU	131	-14.393	0.855	11.596	1.00	0.00
ATOM	2027	N	THR	132	-15.982	0.735	16.307	1.00	0.00
ATOM	2028	CA	THR	132	-17.041	1.041	17.258	1.00	0.00
ATOM	2032	C	THR	132	-16.658	2.081	18.313	1.00	0.00
ATOM	2033	O	THR	132	-17.490	2.910	18.688	1.00	0.00
ATOM	2029	CB	THR	132	-17.499	-0.236	17.979	1.00	0.00
ATOM	2030	OG1	THR	132	-17.476	-1.341	17.068	1.00	0.00
ATOM	2031	CG2	THR	132	-18.903	-0.070	18.542	1.00	0.00
ATOM	2034	H	THR	132	-15.466	-0.093	16.412	1.00	0.00
ATOM	2035	HA	THR	132	-17.882	1.417	16.696	1.00	0.00
ATOM	2036	HB	THR	132	-16.817	-0.432	18.795	1.00	0.00
ATOM	2037	HG1	THR	132	-17.885	-1.070	16.231	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.219	0.956	18.426	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.902	-0.328	19.591	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.584	-0.719	18.012	1.00	0.00
ATOM	2041	N	ARG	133	-15.441	2.021	18.843	1.00	0.00
ATOM	2042	CA	ARG	133	-15.070	2.953	19.905	1.00	0.00
ATOM	2050	C	ARG	133	-13.920	3.892	19.554	1.00	0.00
ATOM	2051	O	ARG	133	-13.970	5.073	19.901	1.00	0.00
ATOM	2043	CB	ARG	133	-14.732	2.190	21.193	1.00	0.00
ATOM	2044	CG	ARG	133	-15.402	0.826	21.311	1.00	0.00
ATOM	2045	CD	ARG	133	-15.618	0.432	22.766	1.00	0.00
ATOM	2046	NE	ARG	133	-15.886	-0.999	22.917	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.436	-1.743	23.932	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.798	-1.174	24.947	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.653	-3.052	23.945	1.00	0.00
ATOM	2052	H	ARG	133	-14.813	1.321	18.556	1.00	0.00
ATOM	2053	HA	ARG	133	-15.936	3.566	20.098	1.00	0.00
ATOM	2054	LHB	ARG	133	-15.035	2.789	22.039	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.663	2.043	21.236	1.00	0.00
ATOM	2056	LHG	ARG	133	-14.774	0.086	20.837	1.00	0.00



ATOM	2057	2HG	ARG	133	-16.360	0.860	20.813	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.457	0.990	23.157	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.729	0.681	23.327	1.00	0.00
ATOM	2060	HE	ARG	133	-16.415	-1.435	22.205	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.658	-0.184	24.965	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.432	-1.743	25.704	1.00	0.00
ATOM	2063	1HH2	ARG	133	-16.160	-3.492	23.194	1.00	0.00
ATOM	2064	2HH2	ARG	133	-15.308	-3.610	24.704	1.00	0.00
ATOM	2065	N	LEU	134	-12.880	3.392	18.906	1.00	0.00
ATOM	2066	CA	LEU	134	-11.735	4.244	18.578	1.00	0.00
ATOM	2071	C	LEU	134	-12.132	5.369	17.628	1.00	0.00
ATOM	2072	O	LEU	134	-11.772	6.527	17.847	1.00	0.00
ATOM	2067	CB	LEU	134	-10.597	3.423	17.981	1.00	0.00
ATOM	2068	CG	LEU	134	-9.375	3.240	18.883	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.670	4.568	19.115	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.773	2.601	20.204	1.00	0.00
ATOM	2073	H	LEU	134	-12.867	2.439	18.660	1.00	0.00
ATOM	2074	HA	LEU	134	-11.390	4.688	19.500	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.274	3.904	17.068	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.983	2.447	17.734	1.00	0.00
ATOM	2077	HG	LEU	134	-8.681	2.577	18.390	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.955	4.739	18.321	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.155	4.543	20.063	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.396	5.368	19.121	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.639	3.315	21.004	1.00	0.00
ATOM	2082	2HD2	LEU	134	-9.155	1.735	20.385	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.810	2.302	20.161	1.00	0.00
ATOM	2084	N	ALA	135	-12.872	5.023	16.578	1.00	0.00
ATOM	2085	CA	ALA	135	-13.324	5.994	15.598	1.00	0.00
ATOM	2087	C	ALA	135	-14.053	7.157	16.256	1.00	0.00
ATOM	2088	O	ALA	135	-13.953	8.290	15.787	1.00	0.00
ATOM	2086	CB	ALA	135	-14.218	5.326	14.566	1.00	0.00
ATOM	2089	H	ALA	135	-13.119	4.077	16.457	1.00	0.00
ATOM	2090	HA	ALA	135	-12.453	6.379	15.086	1.00	0.00
ATOM	2091	1HB	ALA	135	-15.034	5.987	14.315	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.612	4.407	14.973	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.643	5.110	13.679	1.00	0.00
ATOM	2094	N	ASP	136	-14.775	6.888	17.346	1.00	0.00
ATOM	2095	CA	ASP	136	-15.491	7.950	18.039	1.00	0.00
ATOM	2100	C	ASP	136	-14.516	8.917	18.685	1.00	0.00
ATOM	2101	O	ASP	136	-14.585	10.122	18.437	1.00	0.00
ATOM	2096	CB	ASP	136	-16.454	7.395	19.084	1.00	0.00
ATOM	2097	CG	ASP	136	-17.653	8.303	19.259	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.239	8.714	18.234	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.004	8.623	20.415	1.00	0.00
ATOM	2102	H	ASP	136	-14.815	5.968	17.692	1.00	0.00
ATOM	2103	HA	ASP	136	-16.060	8.493	17.298	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.944	7.310	20.032	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.800	6.421	18.771	1.00	0.00
ATOM	2106	N	TRP	137	-13.585	8.392	19.489	1.00	0.00
ATOM	2107	CA	TRP	137	-12.584	9.231	20.132	1.00	0.00
ATOM	2118	C	TRP	137	-11.841	10.039	19.076	1.00	0.00
ATOM	2119	O	TRP	137	-11.649	11.248	19.214	1.00	0.00
ATOM	2108	CB	TRP	137	-11.586	8.375	20.932	1.00	0.00
ATOM	2109	CG	TRP	137	-10.443	9.171	21.501	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.351	9.674	22.763	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.236	9.559	20.831	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.175	10.367	22.914	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.474	10.308	21.741	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.729	9.350	19.547	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.237	10.847	21.404	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.504	9.885	19.217	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.770	10.626	20.142	1.00	0.00
ATOM	2120	H	TRP	137	-13.560	7.421	19.637	1.00	0.00
ATOM	2121	HA	TRP	137	-13.093	9.909	20.800	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.175	7.611	20.285	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.106	7.901	21.752	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.102	9.539	23.522	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.885	10.831	23.729	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.283	8.779	18.816	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.652	11.418	22.104	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.100	9.732	18.227	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.813	11.027	19.840	1.00	0.00



ATOM	2130	N	ILE	138	-11.422	9.346	18.028	1.00	0.00
ATOM	2131	CA	ILE	138	-10.683	9.958	16.938	1.00	0.00
ATOM	2136	C	ILE	138	-11.472	11.096	16.301	1.00	0.00
ATOM	2137	O	ILE	138	-10.944	12.191	16.109	1.00	0.00
ATOM	2132	CB	ILE	138	-10.306	8.903	15.867	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.064	8.128	16.311	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.065	9.545	14.508	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.111	6.656	15.971	1.00	0.00
ATOM	2138	H	ILE	138	-11.608	8.380	17.995	1.00	0.00
ATOM	2139	HA	ILE	138	-9.768	10.360	17.348	1.00	0.00
ATOM	2140	HB	ILE	138	-11.131	8.215	15.769	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.956	8.218	17.382	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.195	8.549	15.830	1.00	0.00
ATOM	2143	1HG2	ILE	138	-11.009	9.668	13.997	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.418	8.911	13.920	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.599	10.509	14.643	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.630	6.092	16.756	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.595	6.486	15.037	1.00	0.00
ATOM	2148	3HD1	ILE	138	-10.139	6.339	15.878	1.00	0.00
ATOM	2149	N	HIS	139	-12.730	10.832	15.976	1.00	0.00
ATOM	2150	CA	HIS	139	-13.592	11.831	15.346	1.00	0.00
ATOM	2157	C	HIS	139	-13.777	13.063	16.223	1.00	0.00
ATOM	2158	O	HIS	139	-13.798	14.187	15.723	1.00	0.00
ATOM	2151	CB	HIS	139	-14.951	11.220	15.003	1.00	0.00
ATOM	2152	CG	HIS	139	-14.923	10.423	13.736	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.712	9.313	13.519	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.165	10.568	12.625	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.434	8.808	12.328	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.500	9.554	11.768	1.00	0.00
ATOM	2159	H	HIS	139	-13.094	9.934	16.159	1.00	0.00
ATOM	2160	HA	HIS	139	-13.113	12.136	14.428	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.677	12.011	14.887	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.260	10.566	15.806	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.382	8.948	14.146	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.430	11.340	12.446	1.00	0.00
ATOM	2165	HE1	HIS	139	-15.889	7.931	11.892	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.141	9.431	10.854	1.00	0.00
ATOM	2167	N	SER	140	-13.920	12.855	17.523	1.00	0.00
ATOM	2168	CA	SER	140	-14.116	13.962	18.449	1.00	0.00
ATOM	2171	C	SER	140	-12.802	14.691	18.755	1.00	0.00
ATOM	2172	O	SER	140	-12.809	15.877	19.087	1.00	0.00
ATOM	2169	CB	SER	140	-14.762	13.448	19.737	1.00	0.00
ATOM	2170	OG	SER	140	-15.914	12.666	19.452	1.00	0.00
ATOM	2173	H	SER	140	-13.907	11.935	17.871	1.00	0.00
ATOM	2174	HA	SER	140	-14.790	14.661	17.979	1.00	0.00
ATOM	2175	1HB	SER	140	-15.053	14.287	20.353	1.00	0.00
ATOM	2176	2HB	SER	140	-14.052	12.835	20.273	1.00	0.00
ATOM	2177	HG	SER	140	-16.572	13.212	19.006	1.00	0.00
ATOM	2178	N	SER	141	-11.683	13.984	18.649	1.00	0.00
ATOM	2179	CA	SER	141	-10.376	14.572	18.930	1.00	0.00
ATOM	2182	C	SER	141	-9.896	15.492	17.811	1.00	0.00
ATOM	2183	O	SER	141	-9.579	16.657	18.042	1.00	0.00
ATOM	2180	CB	SER	141	-9.340	13.471	19.172	1.00	0.00
ATOM	2181	OG	SER	141	-8.574	13.733	20.336	1.00	0.00
ATOM	2184	H	SER	141	-11.738	13.039	18.387	1.00	0.00
ATOM	2185	HA	SER	141	-10.470	15.152	19.825	1.00	0.00
ATOM	2186	1HB	SER	141	-8.674	13.416	18.324	1.00	0.00
ATOM	2187	2HB	SER	141	-9.845	12.524	19.294	1.00	0.00
ATOM	2188	HG	SER	141	-7.745	14.158	20.081	1.00	0.00
ATOM	2189	N	GLY	142	-9.830	14.960	16.608	1.00	0.00
ATOM	2190	CA	GLY	142	-9.363	15.739	15.476	1.00	0.00
ATOM	2191	C	GLY	142	-9.391	14.930	14.209	1.00	0.00
ATOM	2192	O	GLY	142	-9.330	15.468	13.106	1.00	0.00
ATOM	2193	H	GLY	142	-10.090	14.025	16.487	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.351	16.059	15.665	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.990	16.606	15.354	1.00	0.00
ATOM	2196	N	GLY	143	-9.503	13.629	14.375	1.00	0.00
ATOM	2197	CA	GLY	143	-9.561	12.744	13.236	1.00	0.00
ATOM	2198	C	GLY	143	-8.215	12.222	12.824	1.00	0.00
ATOM	2199	O	GLY	143	-7.184	12.681	13.308	1.00	0.00
ATOM	2200	H	GLY	143	-9.563	13.264	15.288	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.995	13.273	12.407	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.187	11.910	13.478	1.00	0.00



ATOM	2203	N	TRP	144	-8.232	11.263	11.909	1.00	0.00
ATOM	2204	CA	TRP	144	-7.012	10.665	11.398	1.00	0.00
ATOM	2215	C	TRP	144	-6.171	11.727	10.706	1.00	0.00
ATOM	2216	O	TRP	144	-4.948	11.624	10.650	1.00	0.00
ATOM	2205	CB	TRP	144	-7.355	9.523	10.439	1.00	0.00
ATOM	2206	CG	TRP	144	-7.961	8.338	11.135	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.291	8.030	11.244	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.254	7.306	11.830	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.449	6.869	11.968	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.212	6.406	12.334	1.00	0.00
ATOM	2211	CE3	TRP	144	-5.901	7.056	12.073	1.00	0.00
ATOM	2212	CZ2	TRP	144	-7.857	5.277	13.066	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.552	5.935	12.798	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.526	5.058	13.286	1.00	0.00
ATOM	2217	H	TRP	144	-9.092	10.954	11.560	1.00	0.00
ATOM	2218	HA	TRP	144	-6.455	10.274	12.234	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.453	9.196	9.943	1.00	0.00
ATOM	2220	2HB	TRP	144	-8.060	9.878	9.703	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.089	8.625	10.825	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.309	6.438	12.184	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.134	7.721	11.703	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.594	4.588	13.450	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.509	5.722	12.993	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.207	4.193	13.848	1.00	0.00
ATOM	2227	N	ALA	145	-6.849	12.764	10.216	1.00	0.00
ATOM	2228	CA	ALA	145	-6.192	13.881	9.556	1.00	0.00
ATOM	2230	C	ALA	145	-5.312	14.639	10.542	1.00	0.00
ATOM	2231	O	ALA	145	-4.245	15.141	10.179	1.00	0.00
ATOM	2229	CB	ALA	145	-7.226	14.812	8.940	1.00	0.00
ATOM	2232	H	ALA	145	-7.817	12.785	10.324	1.00	0.00
ATOM	2233	HA	ALA	145	-5.574	13.487	8.762	1.00	0.00
ATOM	2234	1HB	ALA	145	-8.216	14.419	9.120	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.057	14.885	7.876	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.141	15.793	9.386	1.00	0.00
ATOM	2237	N	GLU	146	-5.749	14.699	11.800	1.00	0.00
ATOM	2238	CA	GLU	146	-4.973	15.377	12.833	1.00	0.00
ATOM	2244	C	GLU	146	-3.680	14.600	13.071	1.00	0.00
ATOM	2245	O	GLU	146	-2.606	15.173	13.248	1.00	0.00
ATOM	2239	CB	GLU	146	-5.796	15.508	14.127	1.00	0.00
ATOM	2240	CG	GLU	146	-4.996	15.288	15.401	1.00	0.00
ATOM	2241	CD	GLU	146	-5.327	16.287	16.490	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.517	17.482	16.166	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.391	15.881	17.671	1.00	0.00
ATOM	2246	H	GLU	146	-6.602	14.260	12.043	1.00	0.00
ATOM	2247	HA	GLU	146	-4.724	16.363	12.467	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.606	14.791	14.106	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.214	16.498	14.167	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.945	15.368	15.168	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.205	14.295	15.774	1.00	0.00
ATOM	2252	N	PHE	147	-3.805	13.282	13.034	1.00	0.00
ATOM	2253	CA	PHE	147	-2.676	12.378	13.216	1.00	0.00
ATOM	2261	C	PHE	147	-1.681	12.519	12.064	1.00	0.00
ATOM	2262	O	PHE	147	-0.467	12.485	12.281	1.00	0.00
ATOM	2254	CB	PHE	147	-3.190	10.936	13.319	1.00	0.00
ATOM	2255	CG	PHE	147	-2.151	9.917	13.698	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.108	10.239	14.554	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.224	8.628	13.195	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.159	9.294	14.896	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.279	7.681	13.534	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.246	8.013	14.384	1.00	0.00
ATOM	2263	H	PHE	147	-4.691	12.904	12.864	1.00	0.00
ATOM	2264	HA	PHE	147	-2.175	12.645	14.136	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.604	10.645	12.363	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.970	10.895	14.063	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.040	11.240	14.953	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.033	8.366	12.529	1.00	0.00
ATOM	2269	HE1	PHE	147	0.650	9.557	15.562	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.349	6.681	13.133	1.00	0.00
ATOM	2271	HZ	PHE	147	0.499	7.271	14.646	1.00	0.00
ATOM	2272	N	THR	148	-2.185	12.690	10.843	1.00	0.00
ATOM	2273	CA	THR	148	-1.308	12.845	9.690	1.00	0.00
ATOM	2277	C	THR	148	-0.540	14.159	9.767	1.00	0.00
ATOM	2278	O	THR	148	0.561	14.275	9.244	1.00	0.00



ATOM	2274	CB	THR	148	-2.078	12.791	8.359	1.00	0.00
ATOM	2275	OG1	THR	148	-3.468	12.569	8.602	1.00	0.00
ATOM	2276	CG2	THR	148	-1.523	11.695	7.464	1.00	0.00
ATOM	2279	H	THR	148	-3.162	12.718	10.716	1.00	0.00
ATOM	2280	HA	THR	148	-0.599	12.029	9.703	1.00	0.00
ATOM	2281	HB	THR	148	-1.958	13.734	7.857	1.00	0.00
ATOM	2282	HG1	THR	148	-3.682	11.637	8.458	1.00	0.00
ATOM	2283	1HG2	THR	148	-2.233	11.481	6.678	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.353	10.803	8.050	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.591	12.023	7.028	1.00	0.00
ATOM	2286	N	ALA	149	-1.116	15.146	10.428	1.00	0.00
ATOM	2287	CA	ALA	149	-0.453	16.431	10.571	1.00	0.00
ATOM	2289	C	ALA	149	0.459	16.423	11.788	1.00	0.00
ATOM	2290	O	ALA	149	1.351	17.260	11.919	1.00	0.00
ATOM	2288	CB	ALA	149	-1.472	17.557	10.666	1.00	0.00
ATOM	2291	H	ALA	149	-2.000	15.006	10.836	1.00	0.00
ATOM	2292	HA	ALA	149	0.153	16.587	9.690	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.838	17.793	9.678	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.003	18.429	11.095	1.00	0.00
ATOM	2295	3HB	ALA	149	-2.295	17.245	11.291	1.00	0.00
ATOM	2296	N	LEU	150	0.223	15.469	12.673	1.00	0.00
ATOM	2297	CA	LEU	150	1.012	15.335	13.883	1.00	0.00
ATOM	2302	C	LEU	150	2.371	14.730	13.573	1.00	0.00
ATOM	2303	O	LEU	150	3.402	15.238	14.011	1.00	0.00
ATOM	2298	CB	LEU	150	0.285	14.455	14.902	1.00	0.00
ATOM	2299	CG	LEU	150	-0.162	15.170	16.176	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.632	14.904	16.451	1.00	0.00
ATOM	2301	CD2	LEU	150	0.688	14.733	17.358	1.00	0.00
ATOM	2304	H	LEU	150	-0.506	14.837	12.507	1.00	0.00
ATOM	2305	HA	LEU	150	1.153	16.320	14.302	1.00	0.00
ATOM	2306	1HB	LEU	150	0.945	13.649	15.183	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.584	14.030	14.424	1.00	0.00
ATOM	2308	HG	LEU	150	-0.035	16.233	16.046	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.188	14.960	15.527	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.008	15.644	17.142	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.746	13.919	16.881	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.656	14.411	17.005	1.00	0.00
ATOM	2313	2HD2	LEU	150	0.201	13.917	17.869	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.811	15.563	18.039	1.00	0.00
ATOM	2315	N	TYR	151	2.369	13.627	12.832	1.00	0.00
ATOM	2316	CA	TYR	151	3.618	12.949	12.496	1.00	0.00
ATOM	2325	C	TYR	151	3.659	12.494	11.046	1.00	0.00
ATOM	2326	O	TYR	151	4.289	11.486	10.724	1.00	0.00
ATOM	2317	CB	TYR	151	3.814	11.745	13.407	1.00	0.00
ATOM	2318	CG	TYR	151	4.865	11.955	14.472	1.00	0.00
ATOM	2319	CD1	TYR	151	4.625	12.794	15.551	1.00	0.00
ATOM	2320	CD2	TYR	151	6.088	11.304	14.404	1.00	0.00
ATOM	2321	CE1	TYR	151	5.573	12.978	16.535	1.00	0.00
ATOM	2322	CE2	TYR	151	7.044	11.484	15.383	1.00	0.00
ATOM	2323	CZ	TYR	151	6.783	12.321	16.448	1.00	0.00
ATOM	2324	OH	TYR	151	7.729	12.488	17.430	1.00	0.00
ATOM	2327	H	TYR	151	1.510	13.255	12.520	1.00	0.00
ATOM	2328	HA	TYR	151	4.425	13.644	12.664	1.00	0.00
ATOM	2329	1HB	TYR	151	4.111	10.895	12.810	1.00	0.00
ATOM	2330	2HB	TYR	151	2.880	11.525	13.899	1.00	0.00
ATOM	2331	HD1	TYR	151	3.677	13.307	15.616	1.00	0.00
ATOM	2332	HD2	TYR	151	6.291	10.650	13.568	1.00	0.00
ATOM	2333	HE1	TYR	151	5.364	13.635	17.368	1.00	0.00
ATOM	2334	HE2	TYR	151	7.991	10.969	15.314	1.00	0.00
ATOM	2335	HH	TYR	151	7.808	11.664	17.937	1.00	0.00
ATOM	2336	N	GLY	152	3.007	13.234	10.171	1.00	0.00
ATOM	2337	CA	GLY	152	3.015	12.877	8.768	1.00	0.00
ATOM	2338	C	GLY	152	4.118	13.588	8.027	1.00	0.00
ATOM	2339	O	GLY	152	5.299	13.352	8.280	1.00	0.00
ATOM	2340	H	GLY	152	2.524	14.039	10.475	1.00	0.00
ATOM	2341	1HA	GLY	152	2.065	13.149	8.331	1.00	0.00
ATOM	2342	2HA	GLY	152	3.156	11.813	8.674	1.00	0.00
ATOM	2343	N	ASP	153	3.733	14.468	7.123	1.00	0.00
ATOM	2344	CA	ASP	153	4.697	15.237	6.351	1.00	0.00
ATOM	2349	C	ASP	153	5.127	16.463	7.143	1.00	0.00
ATOM	2350	O	ASP	153	6.295	16.607	7.511	1.00	0.00
ATOM	2345	CB	ASP	153	4.098	15.661	5.009	1.00	0.00
ATOM	2346	CG	ASP	153	5.104	16.375	4.127	1.00	0.00



ATOM	2347	OD1	ASP	153	5.305	17.594	4.307	1.00	0.00
ATOM	2348	OD2	ASP	153	5.691	15.721	3.239	1.00	0.00
ATOM	2351	H	ASP	153	2.776	14.612	6.980	1.00	0.00
ATOM	2352	HA	ASP	153	5.560	14.612	6.176	1.00	0.00
ATOM	2353	1HB	ASP	153	3.265	16.325	5.187	1.00	0.00
ATOM	2354	2HB	ASP	153	3.748	14.783	4.486	1.00	0.00
ATOM	2355	N	GLY	154	4.168	17.338	7.416	1.00	0.00
ATOM	2356	CA	GLY	154	4.446	18.542	8.171	1.00	0.00
ATOM	2357	C	GLY	154	4.423	18.302	9.668	1.00	0.00
ATOM	2358	O	GLY	154	3.587	18.855	10.377	1.00	0.00
ATOM	2359	H	GLY	154	3.258	17.160	7.105	1.00	0.00
ATOM	2360	1HA	GLY	154	3.704	19.287	7.924	1.00	0.00
ATOM	2361	2HA	GLY	154	5.422	18.912	7.891	1.00	0.00
ATOM	2362	N	ALA	155	5.347	17.481	10.144	1.00	0.00
ATOM	2363	CA	ALA	155	5.451	17.163	11.558	1.00	0.00
ATOM	2365	C	ALA	155	6.184	18.274	12.293	1.00	0.00
ATOM	2366	O	ALA	155	7.357	18.141	12.646	1.00	0.00
ATOM	2364	CB	ALA	155	6.158	15.827	11.751	1.00	0.00
ATOM	2367	H	ALA	155	5.983	17.082	9.523	1.00	0.00
ATOM	2368	HA	ALA	155	4.449	17.077	11.957	1.00	0.00
ATOM	2369	1HB	ALA	155	6.267	15.335	10.795	1.00	0.00
ATOM	2370	2HB	ALA	155	5.575	15.203	12.413	1.00	0.00
ATOM	2371	3HB	ALA	155	7.134	15.996	12.182	1.00	0.00
ATOM	2372	N	LEU	156	5.483	19.378	12.495	1.00	0.00
ATOM	2373	CA	LEU	156	6.032	20.539	13.165	1.00	0.00
ATOM	2378	C	LEU	156	6.462	20.201	14.587	1.00	0.00
ATOM	2379	O	LEU	156	5.939	19.273	15.209	1.00	0.00
ATOM	2374	CB	LEU	156	5.007	21.673	13.182	1.00	0.00
ATOM	2375	CG	LEU	156	3.565	21.257	13.487	1.00	0.00
ATOM	2376	CD1	LEU	156	2.941	22.203	14.497	1.00	0.00
ATOM	2377	CD2	LEU	156	2.732	21.227	12.216	1.00	0.00
ATOM	2380	H	LEU	156	4.564	19.416	12.167	1.00	0.00
ATOM	2381	HA	LEU	156	6.899	20.861	12.608	1.00	0.00
ATOM	2382	1HB	LEU	156	5.023	22.156	12.218	1.00	0.00
ATOM	2383	2HB	LEU	156	5.314	22.385	13.924	1.00	0.00
ATOM	2384	HG	LEU	156	3.566	20.264	13.915	1.00	0.00
ATOM	2385	1HD1	LEU	156	1.873	22.241	14.342	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.359	23.190	14.370	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.148	21.849	15.497	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.751	20.833	12.439	1.00	0.00
ATOM	2389	2HD2	LEU	156	3.215	20.597	11.484	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.637	22.228	11.824	1.00	0.00
ATOM	2391	N	GLU	157	7.424	20.963	15.089	1.00	0.00
ATOM	2392	CA	GLU	157	7.957	20.765	16.428	1.00	0.00
ATOM	2398	C	GLU	157	6.867	20.865	17.491	1.00	0.00
ATOM	2399	O	GLU	157	6.974	20.259	18.555	1.00	0.00
ATOM	2393	CB	GLU	157	9.061	21.785	16.705	1.00	0.00
ATOM	2394	CG	GLU	157	8.670	23.224	16.408	1.00	0.00
ATOM	2395	CD	GLU	157	8.667	24.089	17.651	1.00	0.00
ATOM	2396	OE1	GLU	157	9.710	24.163	18.334	1.00	0.00
ATOM	2397	OE2	GLU	157	7.616	24.686	17.958	1.00	0.00
ATOM	2400	H	GLU	157	7.799	21.680	14.531	1.00	0.00
ATOM	2401	HA	GLU	157	8.385	19.775	16.466	1.00	0.00
ATOM	2402	1HB	GLU	157	9.915	21.538	16.098	1.00	0.00
ATOM	2403	2HB	GLU	157	9.338	21.720	17.742	1.00	0.00
ATOM	2404	1HG	GLU	157	7.679	23.234	15.976	1.00	0.00
ATOM	2405	2HG	GLU	157	9.374	23.638	15.701	1.00	0.00
ATOM	2406	N	GLU	158	5.822	21.622	17.191	1.00	0.00
ATOM	2407	CA	GLU	158	4.712	21.797	18.124	1.00	0.00
ATOM	2413	C	GLU	158	3.851	20.542	18.188	1.00	0.00
ATOM	2414	O	GLU	158	3.288	20.216	19.228	1.00	0.00
ATOM	2408	CB	GLU	158	3.845	22.989	17.716	1.00	0.00
ATOM	2409	CG	GLU	158	4.161	24.273	18.463	1.00	0.00
ATOM	2410	CD	GLU	158	3.744	24.209	19.915	1.00	0.00
ATOM	2411	OE1	GLU	158	4.360	23.439	20.673	1.00	0.00
ATOM	2412	OE2	GLU	158	2.798	24.928	20.303	1.00	0.00
ATOM	2415	H	GLU	158	5.796	22.070	16.319	1.00	0.00
ATOM	2416	HA	GLU	158	5.128	21.981	19.102	1.00	0.00
ATOM	2417	1HB	GLU	158	2.812	22.738	17.903	1.00	0.00
ATOM	2418	2HB	GLU	158	3.976	23.171	16.661	1.00	0.00
ATOM	2419	1HG	GLU	158	3.639	25.090	17.988	1.00	0.00
ATOM	2420	2HG	GLU	158	5.225	24.450	18.418	1.00	0.00
ATOM	2421	N	ALA	159	3.756	19.839	17.071	1.00	0.00



ATOM	2422	CA	ALA	159	2.959	18.624	17.010	1.00	0.00
ATOM	2424	C	ALA	159	3.705	17.461	17.640	1.00	0.00
ATOM	2425	O	ALA	159	3.125	16.653	18.366	1.00	0.00
ATOM	2423	CB	ALA	159	2.592	18.305	15.568	1.00	0.00
ATOM	2426	H	ALA	159	4.236	20.140	16.271	1.00	0.00
ATOM	2427	HA	ALA	159	2.046	18.796	17.560	1.00	0.00
ATOM	2428	1HB	ALA	159	3.378	18.648	14.912	1.00	0.00
ATOM	2429	2HB	ALA	159	1.667	18.802	15.314	1.00	0.00
ATOM	2430	3HB	ALA	159	2.469	17.238	15.455	1.00	0.00
ATOM	2431	N	ARG	160	4.996	17.381	17.359	1.00	0.00
ATOM	2432	CA	ARG	160	5.818	16.309	17.894	1.00	0.00
ATOM	2440	C	ARG	160	5.959	16.413	19.415	1.00	0.00
ATOM	2441	O	ARG	160	5.944	15.397	20.111	1.00	0.00
ATOM	2433	CB	ARG	160	7.190	16.281	17.207	1.00	0.00
ATOM	2434	CG	ARG	160	8.136	17.383	17.646	1.00	0.00
ATOM	2435	CD	ARG	160	9.539	16.851	17.869	1.00	0.00
ATOM	2436	NE	ARG	160	10.546	17.897	17.719	1.00	0.00
ATOM	2437	CZ	ARG	160	11.607	17.799	16.914	1.00	0.00
ATOM	2438	NH1	ARG	160	11.771	16.722	16.152	1.00	0.00
ATOM	2439	NH2	ARG	160	12.496	18.786	16.865	1.00	0.00
ATOM	2442	H	ARG	160	5.401	18.056	16.770	1.00	0.00
ATOM	2443	HA	ARG	160	5.310	15.381	17.673	1.00	0.00
ATOM	2444	1HB	ARG	160	7.042	16.369	16.141	1.00	0.00
ATOM	2445	2HB	ARG	160	7.662	15.333	17.417	1.00	0.00
ATOM	2446	1HG	ARG	160	7.771	17.813	18.568	1.00	0.00
ATOM	2447	2HG	ARG	160	8.168	18.143	16.879	1.00	0.00
ATOM	2448	1HD	ARG	160	9.732	16.071	17.149	1.00	0.00
ATOM	2449	2HD	ARG	160	9.601	16.444	18.867	1.00	0.00
ATOM	2450	HE	ARG	160	10.430	18.711	18.257	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.095	15.975	16.176	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.573	16.646	15.544	1.00	0.00
ATOM	2453	1HH2	ARG	160	12.374	19.604	17.428	1.00	0.00
ATOM	2454	2HH2	ARG	160	13.306	18.710	16.268	1.00	0.00
ATOM	2455	N	ARG	161	6.074	17.634	19.941	1.00	0.00
ATOM	2456	CA	ARG	161	6.196	17.806	21.384	1.00	0.00
ATOM	2464	C	ARG	161	4.861	17.528	22.058	1.00	0.00
ATOM	2465	O	ARG	161	4.810	17.067	23.200	1.00	0.00
ATOM	2457	CB	ARG	161	6.717	19.197	21.755	1.00	0.00
ATOM	2458	CG	ARG	161	5.778	20.337	21.412	1.00	0.00
ATOM	2459	CD	ARG	161	6.101	21.585	22.227	1.00	0.00
ATOM	2460	NE	ARG	161	7.482	22.030	22.026	1.00	0.00
ATOM	2461	CZ	ARG	161	7.865	22.838	21.033	1.00	0.00
ATOM	2462	NH1	ARG	161	6.959	23.383	20.235	1.00	0.00
ATOM	2463	NH2	ARG	161	9.146	23.148	20.873	1.00	0.00
ATOM	2466	H	ARG	161	6.066	18.422	19.354	1.00	0.00
ATOM	2467	HA	ARG	161	6.905	17.075	21.727	1.00	0.00
ATOM	2468	1HB	ARG	161	7.650	19.365	21.239	1.00	0.00
ATOM	2469	2HB	ARG	161	6.897	19.223	22.819	1.00	0.00
ATOM	2470	1HG	ARG	161	4.760	20.036	21.614	1.00	0.00
ATOM	2471	2HG	ARG	161	5.886	20.559	20.365	1.00	0.00
ATOM	2472	1HD	ARG	161	5.954	21.363	23.273	1.00	0.00
ATOM	2473	2HD	ARG	161	5.431	22.378	21.930	1.00	0.00
ATOM	2474	HE	ARG	161	8.160	21.689	22.653	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.974	23.197	20.379	1.00	0.00
ATOM	2476	2HH1	ARG	161	7.246	23.988	19.475	1.00	0.00
ATOM	2477	1HH2	ARG	161	9.838	22.784	21.502	1.00	0.00
ATOM	2478	2HH2	ARG	161	9.430	23.740	20.103	1.00	0.00
ATOM	2479	N	LEU	162	3.779	17.781	21.331	1.00	0.00
ATOM	2480	CA	LEU	162	2.443	17.535	21.841	1.00	0.00
ATOM	2485	C	LEU	162	2.218	16.039	21.989	1.00	0.00
ATOM	2486	O	LEU	162	1.599	15.589	22.947	1.00	0.00
ATOM	2481	CB	LEU	162	1.388	18.136	20.908	1.00	0.00
ATOM	2482	CG	LEU	162	0.429	19.129	21.564	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.011	20.187	20.564	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.778	18.403	22.139	1.00	0.00
ATOM	2487	H	LEU	162	3.884	18.129	20.420	1.00	0.00
ATOM	2488	HA	LEU	162	2.366	17.999	22.814	1.00	0.00
ATOM	2489	1HB	LEU	162	0.804	17.329	20.491	1.00	0.00
ATOM	2490	2HB	LEU	162	1.898	18.642	20.101	1.00	0.00
ATOM	2491	HG	LEU	162	0.938	19.626	22.377	1.00	0.00
ATOM	2492	1HD1	LEU	162	-0.548	20.970	21.080	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.654	19.737	19.822	1.00	0.00
ATOM	2494	3HD1	LEU	162	0.859	20.607	20.079	1.00	0.00



ATOM	2495	1HD2	LEU	162	-1.046	17.581	21.492	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.608	19.089	22.212	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.537	18.023	23.121	1.00	0.00
ATOM	2498	N	ARG	163	2.738	15.270	21.038	1.00	0.00
ATOM	2499	CA	ARG	163	2.597	13.822	21.075	1.00	0.00
ATOM	2507	C	ARG	163	3.349	13.235	22.262	1.00	0.00
ATOM	2508	O	ARG	163	2.838	12.343	22.939	1.00	0.00
ATOM	2500	CB	ARG	163	3.093	13.186	19.776	1.00	0.00
ATOM	2501	CG	ARG	163	2.502	11.808	19.524	1.00	0.00
ATOM	2502	CD	ARG	163	2.689	11.379	18.080	1.00	0.00
ATOM	2503	NE	ARG	163	3.871	10.534	17.910	1.00	0.00
ATOM	2504	CZ	ARG	163	4.018	9.646	16.930	1.00	0.00
ATOM	2505	NH1	ARG	163	3.037	9.447	16.056	1.00	0.00
ATOM	2506	NH2	ARG	163	5.152	8.971	16.821	1.00	0.00
ATOM	2509	H	ARG	163	3.232	15.690	20.297	1.00	0.00
ATOM	2510	HA	ARG	163	1.548	13.601	21.191	1.00	0.00
ATOM	2511	1HB	ARG	163	4.168	13.091	19.820	1.00	0.00
ATOM	2512	2HB	ARG	163	2.829	13.828	18.948	1.00	0.00
ATOM	2513	1HG	ARG	163	1.446	11.832	19.750	1.00	0.00
ATOM	2514	2HG	ARG	163	2.994	11.093	20.166	1.00	0.00
ATOM	2515	1HD	ARG	163	2.800	12.263	17.470	1.00	0.00
ATOM	2516	2HD	ARG	163	1.814	10.833	17.762	1.00	0.00
ATOM	2517	HE	ARG	163	4.609	10.654	18.552	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.184	9.963	16.133	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.150	8.787	15.312	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.906	9.136	17.482	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.277	8.302	16.087	1.00	0.00
ATOM	2522	N	GLU	164	4.553	13.746	22.513	1.00	0.00
ATOM	2523	CA	GLU	164	5.369	13.273	23.628	1.00	0.00
ATOM	2529	C	GLU	164	4.654	13.524	24.950	1.00	0.00
ATOM	2530	O	GLU	164	4.535	12.624	25.784	1.00	0.00
ATOM	2524	CB	GLU	164	6.745	13.947	23.621	1.00	0.00
ATOM	2525	CG	GLU	164	7.885	12.997	23.271	1.00	0.00
ATOM	2526	CD	GLU	164	9.032	13.068	24.259	1.00	0.00
ATOM	2527	OE1	GLU	164	8.866	13.688	25.329	1.00	0.00
ATOM	2528	OE2	GLU	164	10.104	12.484	23.974	1.00	0.00
ATOM	2531	H	GLU	164	4.900	14.463	21.937	1.00	0.00
ATOM	2532	HA	GLU	164	5.500	12.209	23.508	1.00	0.00
ATOM	2533	1HB	GLU	164	6.937	14.360	24.600	1.00	0.00
ATOM	2534	2HB	GLU	164	6.738	14.749	22.897	1.00	0.00
ATOM	2535	1HG	GLU	164	8.259	13.248	22.289	1.00	0.00
ATOM	2536	2HG	GLU	164	7.506	11.983	23.262	1.00	0.00
ATOM	2537	N	GLY	165	4.154	14.742	25.124	1.00	0.00
ATOM	2538	CA	GLY	165	3.435	15.076	26.338	1.00	0.00
ATOM	2539	C	GLY	165	2.126	14.316	26.433	1.00	0.00
ATOM	2540	O	GLY	165	1.632	14.035	27.525	1.00	0.00
ATOM	2541	H	GLY	165	4.262	15.416	24.417	1.00	0.00
ATOM	2542	1HA	GLY	165	3.232	16.136	26.346	1.00	0.00
ATOM	2543	2HA	GLY	165	4.049	14.828	27.191	1.00	0.00
ATOM	2544	N	ASN	166	1.570	13.987	25.275	1.00	0.00
ATOM	2545	CA	ASN	166	0.311	13.259	25.201	1.00	0.00
ATOM	2550	C	ASN	166	0.455	11.855	25.753	1.00	0.00
ATOM	2551	O	ASN	166	-0.249	11.478	26.690	1.00	0.00
ATOM	2546	CB	ASN	166	-0.189	13.180	23.756	1.00	0.00
ATOM	2547	CG	ASN	166	-1.413	14.039	23.519	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.919	14.693	24.431	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.903	14.038	22.291	1.00	0.00
ATOM	2552	H	ASN	166	2.020	14.247	24.444	1.00	0.00
ATOM	2553	HA	ASN	166	-0.418	13.792	25.794	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.440	12.153	23.524	1.00	0.00
ATOM	2555	2HB	ASN	166	0.595	13.510	23.091	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.456	13.493	21.614	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.701	14.575	22.111	1.00	0.00
ATOM	2558	N	TRP	167	1.361	11.071	25.165	1.00	0.00
ATOM	2559	CA	TRP	167	1.558	9.698	25.607	1.00	0.00
ATOM	2570	C	TRP	167	2.027	9.642	27.050	1.00	0.00
ATOM	2571	O	TRP	167	1.750	8.672	27.748	1.00	0.00
ATOM	2560	CB	TRP	167	2.492	8.904	24.666	1.00	0.00
ATOM	2561	CG	TRP	167	3.941	9.319	24.657	1.00	0.00
ATOM	2562	CD1	TRP	167	4.593	9.974	23.653	1.00	0.00
ATOM	2563	CD2	TRP	167	4.928	9.063	25.668	1.00	0.00
ATOM	2564	NE1	TRP	167	5.914	10.158	23.985	1.00	0.00
ATOM	2565	CE2	TRP	167	6.144	9.612	25.218	1.00	0.00



ATOM	2566	CE3	TRP	167	4.898	8.436	26.914	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.315	9.548	25.969	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.060	8.370	27.660	1.00	0.00
ATOM	2569	CH2	TRP	167	7.254	8.925	27.185	1.00	0.00
ATOM	2572	H	TRP	167	1.891	11.422	24.418	1.00	0.00
ATOM	2573	HA	TRP	167	0.584	9.228	25.573	1.00	0.00
ATOM	2574	LHB	TRP	167	2.118	8.997	23.657	1.00	0.00
ATOM	2575	2HB	TRP	167	2.459	7.865	24.951	1.00	0.00
ATOM	2576	HD1	TRP	167	4.124	10.300	22.736	1.00	0.00
ATOM	2577	HE1	TRP	167	6.582	10.613	23.429	1.00	0.00
ATOM	2578	HE3	TRP	167	3.976	8.003	27.296	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.243	9.973	25.618	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.052	7.886	28.625	1.00	0.00
ATOM	2581	HH2	TRP	167	8.138	8.851	27.802	1.00	0.00
ATOM	2582	N	ALA	168	2.705	10.687	27.505	1.00	0.00
ATOM	2583	CA	ALA	168	3.174	10.740	28.881	1.00	0.00
ATOM	2585	C	ALA	168	2.001	10.601	29.847	1.00	0.00
ATOM	2586	O	ALA	168	2.105	9.942	30.880	1.00	0.00
ATOM	2584	CB	ALA	168	3.928	12.037	29.136	1.00	0.00
ATOM	2587	H	ALA	168	2.881	11.447	26.905	1.00	0.00
ATOM	2588	HA	ALA	168	3.855	9.915	29.034	1.00	0.00
ATOM	2589	LHB	ALA	168	4.466	11.964	30.069	1.00	0.00
ATOM	2590	2HB	ALA	168	3.226	12.857	29.187	1.00	0.00
ATOM	2591	3HB	ALA	168	4.627	12.212	28.331	1.00	0.00
ATOM	2592	N	SER	169	0.888	11.228	29.500	1.00	0.00
ATOM	2593	CA	SER	169	-0.310	11.187	30.323	1.00	0.00
ATOM	2596	C	SER	169	-1.218	9.990	30.001	1.00	0.00
ATOM	2597	O	SER	169	-1.977	9.545	30.861	1.00	0.00
ATOM	2594	CB	SER	169	-1.096	12.489	30.150	1.00	0.00
ATOM	2595	OG	SER	169	-1.669	12.912	31.378	1.00	0.00
ATOM	2598	H	SER	169	0.871	11.740	28.661	1.00	0.00
ATOM	2599	HA	SER	169	0.006	11.110	31.352	1.00	0.00
ATOM	2600	LHB	SER	169	-1.889	12.333	29.434	1.00	0.00
ATOM	2601	2HB	SER	169	-0.435	13.263	29.791	1.00	0.00
ATOM	2602	HG	SER	169	-2.484	12.420	31.536	1.00	0.00
ATOM	2603	N	VAL	170	-1.196	9.506	28.758	1.00	0.00
ATOM	2604	CA	VAL	170	-2.096	8.414	28.367	1.00	0.00
ATOM	2608	C	VAL	170	-1.487	7.016	28.453	1.00	0.00
ATOM	2609	O	VAL	170	-2.181	6.059	28.781	1.00	0.00
ATOM	2605	CB	VAL	170	-2.659	8.610	26.943	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.700	-9.717	26.926	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.562	8.898	25.935	1.00	0.00
ATOM	2610	H	VAL	170	-0.610	9.918	28.088	1.00	0.00
ATOM	2611	HA	VAL	170	-2.936	8.448	29.045	1.00	0.00
ATOM	2612	HB	VAL	170	-3.136	7.691	26.650	1.00	0.00
ATOM	2613	1HG1	VAL	170	-4.681	9.287	26.799	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.494	10.393	26.106	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.661	10.261	27.858	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.632	9.068	26.457	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.820	9.779	25.364	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.454	8.056	25.269	1.00	0.00
ATOM	2619	N	ARG	171	-0.216	6.868	28.138	1.00	0.00
ATOM	2620	CA	ARG	171	0.394	5.548	28.176	1.00	0.00
ATOM	2628	C	ARG	171	0.795	5.168	29.598	1.00	0.00
ATOM	2629	O	ARG	171	1.037	3.998	29.889	1.00	0.00
ATOM	2621	CB	ARG	171	1.580	5.470	27.209	1.00	0.00
ATOM	2622	CG	ARG	171	2.912	5.849	27.823	1.00	0.00
ATOM	2623	CD	ARG	171	4.064	5.232	27.058	1.00	0.00
ATOM	2624	NE	ARG	171	5.056	4.659	27.967	1.00	0.00
ATOM	2625	CZ	ARG	171	6.127	3.965	27.588	1.00	0.00
ATOM	2626	NH1	ARG	171	6.379	3.761	26.298	1.00	0.00
ATOM	2627	NH2	ARG	171	6.944	3.470	28.505	1.00	0.00
ATOM	2630	H	ARG	171	0.318	7.647	27.860	1.00	0.00
ATOM	2631	HA	ARG	171	-0.358	4.844	27.846	1.00	0.00
ATOM	2632	LHB	ARG	171	1.392	6.134	26.378	1.00	0.00
ATOM	2633	2HB	ARG	171	1.659	4.460	26.837	1.00	0.00
ATOM	2634	1HG	ARG	171	2.940	5.499	28.844	1.00	0.00
ATOM	2635	2HG	ARG	171	3.013	6.924	27.804	1.00	0.00
ATOM	2636	1HD	ARG	171	4.530	5.999	26.456	1.00	0.00
ATOM	2637	2HD	ARG	171	3.675	4.456	26.414	1.00	0.00
ATOM	2638	HE	ARG	171	4.907	4.806	28.938	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.764	4.130	25.601	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.188	3.240	26.021	1.00	0.00



ATOM	2641	1HH2	ARG	171	6.755	3.615	29.488	1.00	0.00
ATOM	2642	2HH2	ARG	171	7.763	2.948	28.231	1.00	0.00
ATOM	2643	N	THR	172	0.841	6.157	30.480	1.00	0.00
ATOM	2644	CA	THR	172	1.192	5.917	31.871	1.00	0.00
ATOM	2648	C	THR	172	-0.056	5.762	32.735	1.00	0.00
ATOM	2649	O	THR	172	0.011	5.235	33.842	1.00	0.00
ATOM	2645	CB	THR	172	2.080	7.040	32.426	1.00	0.00
ATOM	2646	OG1	THR	172	2.963	7.513	31.398	1.00	0.00
ATOM	2647	CG2	THR	172	2.893	6.555	33.618	1.00	0.00
ATOM	2650	H	THR	172	0.626	7.068	30.192	1.00	0.00
ATOM	2651	HA	THR	172	1.750	4.996	31.914	1.00	0.00
ATOM	2652	HB	THR	172	1.445	7.848	32.746	1.00	0.00
ATOM	2653	HG1	THR	172	2.792	8.454	31.239	1.00	0.00
ATOM	2654	1HG2	THR	172	3.914	6.386	33.313	1.00	0.00
ATOM	2655	2HG2	THR	172	2.469	5.634	33.990	1.00	0.00
ATOM	2656	3HG2	THR	172	2.869	7.303	34.397	1.00	0.00
ATOM	2657	N	VAL	173	-1.203	6.199	32.222	1.00	0.00
ATOM	2658	CA	VAL	173	-2.448	6.064	32.968	1.00	0.00
ATOM	2662	C	VAL	173	-2.993	4.648	32.799	1.00	0.00
ATOM	2663	O	VAL	173	-3.696	4.122	33.661	1.00	0.00
ATOM	2659	CB	VAL	173	-3.497	7.120	32.537	1.00	0.00
ATOM	2660	CG1	VAL	173	-4.043	6.847	31.147	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.632	7.199	33.547	1.00	0.00
ATOM	2664	H	VAL	173	-1.215	6.602	31.326	1.00	0.00
ATOM	2665	HA	VAL	173	-2.220	6.222	34.014	1.00	0.00
ATOM	2666	HB	VAL	173	-3.007	8.076	32.513	1.00	0.00
ATOM	2667	1HG1	VAL	173	-5.089	7.115	31.110	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.934	5.798	30.914	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.496	7.435	30.423	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.793	8.229	33.829	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.376	6.620	34.422	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.535	6.801	33.104	1.00	0.00
ATOM	2673	N	LEU	174	-2.635	4.032	31.682	1.00	0.00
ATOM	2674	CA	LEU	174	-3.064	2.670	31.386	1.00	0.00
ATOM	2679	C	LEU	174	-1.860	1.754	31.203	1.00	0.00
ATOM	2680	O	LEU	174	-1.848	0.890	30.325	1.00	0.00
ATOM	2675	CB	LEU	174	-3.945	2.646	30.139	1.00	0.00
ATOM	2676	CG	LEU	174	-4.835	3.870	29.966	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.924	4.264	28.503	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.218	3.614	30.539	1.00	0.00
ATOM	2681	H	LEU	174	-2.063	4.505	31.046	1.00	0.00
ATOM	2682	HA	LEU	174	-3.641	2.318	32.228	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.575	1.771	30.183	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.304	2.565	29.272	1.00	0.00
ATOM	2685	HG	LEU	174	-4.393	4.695	30.510	1.00	0.00
ATOM	2686	1HD1	LEU	174	-4.837	5.337	28.411	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.875	3.944	28.103	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.124	3.790	27.953	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.336	4.167	31.460	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.336	2.559	30.735	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.967	3.935	29.829	1.00	0.00
ATOM	2692	N	THR	175	-0.844	1.951	32.030	1.00	0.00
ATOM	2693	CA	THR	175	0.371	1.143	31.963	1.00	0.00
ATOM	2697	C	THR	175	0.073	-0.330	32.240	1.00	0.00
ATOM	2698	O	THR	175	0.745	-1.219	31.720	1.00	0.00
ATOM	2694	CB	THR	175	1.414	1.636	32.976	1.00	0.00
ATOM	2695	OG1	THR	175	0.806	2.578	33.865	1.00	0.00
ATOM	2696	CG2	THR	175	2.599	2.279	32.269	1.00	0.00
ATOM	2699	H	THR	175	-0.903	2.667	32.706	1.00	0.00
ATOM	2700	HA	THR	175	0.784	1.239	30.970	1.00	0.00
ATOM	2701	HB	THR	175	1.768	0.790	33.547	1.00	0.00
ATOM	2702	HG1	THR	175	1.495	3.044	34.359	1.00	0.00
ATOM	2703	1HG2	THR	175	3.194	1.512	31.794	1.00	0.00
ATOM	2704	2HG2	THR	175	3.203	2.809	32.990	1.00	0.00
ATOM	2705	3HG2	THR	175	2.241	2.971	31.521	1.00	0.00
ATOM	2706	N	GLY	176	-0.944	-0.577	33.061	1.00	0.00
ATOM	2707	CA	GLY	176	-1.322	-1.938	33.406	1.00	0.00
ATOM	2708	C	GLY	176	-2.134	-2.635	32.326	1.00	0.00
ATOM	2709	O	GLY	176	-3.053	-3.394	32.628	1.00	0.00
ATOM	2710	H	GLY	176	-1.444	0.175	33.440	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.905	-1.914	34.317	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.425	-2.511	33.585	1.00	0.00
ATOM	2713	N	ALA	177	-1.783	-2.388	31.071	1.00	0.00



ATOM	2714	CA	ALA	177	-2.466	-3.004	29.939	1.00	0.00
ATOM	2716	C	ALA	177	-1.664	-4.191	29.426	1.00	0.00
ATOM	2717	O	ALA	177	-1.993	-4.781	28.404	1.00	0.00
ATOM	2715	CB	ALA	177	-2.677	-1.984	28.831	1.00	0.00
ATOM	2718	H	ALA	177	-1.030	-1.782	30.902	1.00	0.00
ATOM	2719	HA	ALA	177	-3.439	-3.353	30.268	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.140	-2.465	27.982	1.00	0.00
ATOM	2721	2HB	ALA	177	-1.723	-1.572	28.535	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.317	-1.191	29.188	1.00	0.00
ATOM	2723	N	VAL	178	-0.605	-4.533	30.147	1.00	0.00
ATOM	2724	CA	VAL	178	0.252	-5.652	29.775	1.00	0.00
ATOM	2728	C	VAL	178	-0.312	-6.960	30.327	1.00	0.00
ATOM	2729	O	VAL	178	0.336	-7.648	31.120	1.00	0.00
ATOM	2725	CB	VAL	178	1.700	-5.467	30.286	1.00	0.00
ATOM	2726	CG1	VAL	178	2.685	-6.176	29.370	1.00	0.00
ATOM	2727	CG2	VAL	178	2.054	-3.992	30.408	1.00	0.00
ATOM	2730	H	VAL	178	-0.396	-4.020	30.954	1.00	0.00
ATOM	2731	HA	VAL	178	0.276	-5.710	28.696	1.00	0.00
ATOM	2732	HB	VAL	178	1.771	-5.915	31.267	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.983	-7.113	29.818	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.557	-5.554	29.228	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.217	-6.366	28.416	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.326	-3.402	29.872	1.00	0.00
ATOM	2737	2HG2	VAL	178	3.035	-3.821	29.988	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.054	-3.706	31.449	1.00	0.00
ATOM	2739	N	ALA	179	-1.529	-7.291	29.913	1.00	0.00
ATOM	2740	CA	ALA	179	-2.191	-8.507	30.371	1.00	0.00
ATOM	2742	C	ALA	179	-1.671	-9.733	29.629	1.00	0.00
ATOM	2743	O	ALA	179	-1.954	-10.868	30.011	1.00	0.00
ATOM	2741	CB	ALA	179	-3.699	-8.388	30.200	1.00	0.00
ATOM	2744	H	ALA	179	-1.999	-6.695	29.288	1.00	0.00
ATOM	2745	HA	ALA	179	-1.982	-8.622	31.424	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.184	-8.555	31.151	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.040	-9.125	29.487	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.944	-7.399	29.840	1.00	0.00
ATOM	2749	N	LEU	180	-0.910	-9.501	28.569	1.00	0.00
ATOM	2750	CA	LEU	180	-0.356	-10.592	27.783	1.00	0.00
ATOM	2755	C	LEU	180	1.069	-10.903	28.217	1.00	0.00
ATOM	2756	O	LEU	180	1.653	-11.897	27.786	1.00	0.00
ATOM	2751	CB	LEU	180	-0.378	-10.252	26.290	1.00	0.00
ATOM	2752	CG	LEU	180	-1.401	-9.198	25.867	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.873	-8.374	24.704	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.718	-9.856	25.496	1.00	0.00
ATOM	2757	H	LEU	180	-0.713	-8.576	28.309	1.00	0.00
ATOM	2758	HA	LEU	180	-0.968	-11.465	27.951	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.583	-11.158	25.740	1.00	0.00
ATOM	2760	2HB	LEU	180	0.604	-9.899	26.012	1.00	0.00
ATOM	2761	HG	LEU	180	-1.583	-8.528	26.697	1.00	0.00
ATOM	2762	1HD1	LEU	180	-0.161	-7.648	25.070	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.694	-7.863	24.223	1.00	0.00
ATOM	2764	3HD1	LEU	180	-0.388	-9.026	23.992	1.00	0.00
ATOM	2765	1HD2	LEU	180	-2.632	-10.306	24.518	1.00	0.00
ATOM	2766	2HD2	LEU	180	-3.502	-9.114	25.484	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.956	-10.619	26.223	1.00	0.00
ATOM	2768	N	GLY	181	1.624	-10.042	29.062	1.00	0.00
ATOM	2769	CA	GLY	181	2.981	-10.229	29.536	1.00	0.00
ATOM	2770	C	GLY	181	3.104	-11.379	30.514	1.00	0.00
ATOM	2771	O	GLY	181	2.967	-11.191	31.722	1.00	0.00
ATOM	2772	H	GLY	181	1.110	-9.265	29.358	1.00	0.00
ATOM	2773	1HA	GLY	181	3.307	-9.322	30.022	1.00	0.00
ATOM	2774	2HA	GLY	181	3.624	-10.422	28.690	1.00	0.00
ATOM	2775	N	ALA	182	3.358	-12.571	29.994	1.00	0.00
ATOM	2776	CA	ALA	182	3.500	-13.751	30.830	1.00	0.00
ATOM	2778	C	ALA	182	4.952	-14.203	30.867	1.00	0.00
ATOM	2779	O	ALA	182	5.789	-13.692	30.118	1.00	0.00
ATOM	2777	CB	ALA	182	2.602	-14.871	30.321	1.00	0.00
ATOM	2780	H	ALA	182	3.454	-12.663	29.019	1.00	0.00
ATOM	2781	HA	ALA	182	3.185	-13.493	31.831	1.00	0.00
ATOM	2782	1HB	ALA	182	2.410	-14.728	29.267	1.00	0.00
ATOM	2783	2HB	ALA	182	1.668	-14.858	30.862	1.00	0.00
ATOM	2784	3HB	ALA	182	3.093	-15.822	30.472	1.00	0.00
ATOM	2785	N	LEU	183	5.242	-15.161	31.732	1.00	0.00
ATOM	2790	CA	LEU	183	6.584	-15.693	31.873	1.00	0.00



ATOM	2791	C	LEU	183	6.503	-17.136	32.339	1.00	0.00
ATOM	2792	O	LEU	183	7.316	-17.962	31.885	1.00	0.00
ATOM	2786	CB	LEU	183	7.388	-14.857	32.873	1.00	0.00
ATOM	2787	CG	LEU	183	8.885	-14.756	32.582	1.00	0.00
ATOM	2788	CD1	LEU	183	9.227	-13.387	32.014	1.00	0.00
ATOM	2789	CD2	LEU	183	9.688	-15.026	33.844	1.00	0.00
ATOM	2793	OXT	LEU	183	5.600	-17.437	33.150	1.00	0.00
ATOM	2794	H	LEU	183	4.529	-15.529	32.296	1.00	0.00
ATOM	2795	HA	LEU	183	7.065	-15.658	30.906	1.00	0.00
ATOM	2796	1HB	LEU	183	7.265	-15.291	33.854	1.00	0.00
ATOM	2797	2HB	LEU	183	6.977	-13.858	32.886	1.00	0.00
ATOM	2798	HG	LEU	183	9.154	-15.500	31.847	1.00	0.00
ATOM	2799	1HD1	LEU	183	8.984	-13.363	30.963	1.00	0.00
ATOM	2800	2HD1	LEU	183	10.282	-13.198	32.144	1.00	0.00
ATOM	2801	3HD1	LEU	183	8.658	-12.630	32.533	1.00	0.00
ATOM	2802	1HD2	LEU	183	10.240	-14.138	34.116	1.00	0.00
ATOM	2803	2HD2	LEU	183	10.377	-15.836	33.664	1.00	0.00
ATOM	2804	3HD2	LEU	183	9.018	-15.294	34.647	1.00	0.00
ENDMDL									
MODEL 15									
ATOM	3	N	GLY	-4	-11.026	15.397	-29.714	1.00	0.00
ATOM	4	CA	GLY	-4	-11.382	14.279	-30.622	1.00	0.00
ATOM	1	C	GLY	-4	-12.011	13.132	-29.869	1.00	0.00
ATOM	2	O	GLY	-4	-12.526	13.330	-28.771	1.00	0.00
ATOM	5	1HA	GLY	-4	-12.079	14.636	-31.365	1.00	0.00
ATOM	6	2HA	GLY	-4	-10.487	13.930	-31.117	1.00	0.00
ATOM	7	1HT	GLY	-4	-10.726	16.227	-30.269	1.00	0.00
ATOM	8	2HT	GLY	-4	-10.252	15.113	-29.083	1.00	0.00
ATOM	9	3HT	GLY	-4	-11.853	15.659	-29.136	1.00	0.00
ATOM	10	N	PRO	-3	-11.986	11.913	-30.433	1.00	0.00
ATOM	11	CA	PRO	-3	-12.565	10.728	-29.788	1.00	0.00
ATOM	15	C	PRO	-3	-11.876	10.415	-28.465	1.00	0.00
ATOM	16	O	PRO	-3	-12.519	10.056	-27.478	1.00	0.00
ATOM	12	CB	PRO	-3	-12.321	9.601	-30.800	1.00	0.00
ATOM	13	CG	PRO	-3	-12.052	10.289	-32.096	1.00	0.00
ATOM	14	CD	PRO	-3	-11.397	11.592	-31.743	1.00	0.00
ATOM	17	HA	PRO	-3	-13.626	10.846	-29.622	1.00	0.00
ATOM	18	1HB	PRO	-3	-13.199	8.975	-30.862	1.00	0.00
ATOM	19	2HB	PRO	-3	-11.474	9.011	-30.485	1.00	0.00
ATOM	20	1HG	PRO	-3	-12.982	10.465	-32.617	1.00	0.00
ATOM	21	2HG	PRO	-3	-11.391	9.688	-32.701	1.00	0.00
ATOM	22	1HD	PRO	-3	-11.643	12.349	-32.473	1.00	0.00
ATOM	23	2HD	PRO	-3	-10.326	11.471	-31.667	1.00	0.00
ATOM	24	N	LEU	-2	-10.562	10.576	-28.457	1.00	0.00
ATOM	25	CA	LEU	-2	-9.761	10.335	-27.271	1.00	0.00
ATOM	30	C	LEU	-2	-8.996	11.601	-26.909	1.00	0.00
ATOM	31	O	LEU	-2	-9.063	12.598	-27.630	1.00	0.00
ATOM	26	CB	LEU	-2	-8.791	9.172	-27.505	1.00	0.00
ATOM	27	CG	LEU	-2	-7.794	9.374	-28.649	1.00	0.00
ATOM	28	CD1	LEU	-2	-6.387	9.012	-28.203	1.00	0.00
ATOM	29	CD2	LEU	-2	-8.198	8.546	-29.861	1.00	0.00
ATOM	32	H	LEU	-2	-10.118	10.882	-29.274	1.00	0.00
ATOM	33	HA	LEU	-2	-10.431	10.085	-26.460	1.00	0.00
ATOM	34	1HB	LEU	-2	-9.370	8.286	-27.714	1.00	0.00
ATOM	35	2HB	LEU	-2	-8.232	9.010	-26.594	1.00	0.00
ATOM	36	HG	LEU	-2	-7.795	10.415	-28.939	1.00	0.00
ATOM	37	1HD1	LEU	-2	-6.288	7.938	-28.155	1.00	0.00
ATOM	38	2HD1	LEU	-2	-6.199	9.435	-27.227	1.00	0.00
ATOM	39	3HD1	LEU	-2	-5.671	9.407	-28.909	1.00	0.00
ATOM	40	1HD2	LEU	-2	-8.982	7.858	-29.580	1.00	0.00
ATOM	41	2HD2	LEU	-2	-7.344	7.992	-30.220	1.00	0.00
ATOM	42	3HD2	LEU	-2	-8.555	9.202	-30.641	1.00	0.00
ATOM	43	N	GLY	-1	-8.265	11.560	-25.803	1.00	0.00
ATOM	44	CA	GLY	-1	-7.499	12.717	-25.387	1.00	0.00
ATOM	45	C	GLY	-1	-7.515	12.916	-23.885	1.00	0.00
ATOM	46	O	GLY	-1	-6.597	13.514	-23.321	1.00	0.00
ATOM	47	H	GLY	-1	-8.241	10.738	-25.270	1.00	0.00
ATOM	48	1HA	GLY	-1	-7.913	13.596	-25.860	1.00	0.00
ATOM	49	2HA	GLY	-1	-6.476	12.594	-25.711	1.00	0.00
ATOM	50	N	SER	0	-8.559	12.421	-23.238	1.00	0.00
ATOM	51	CA	SER	0	-8.697	12.542	-21.794	1.00	0.00
ATOM	54	C	SER	0	-9.627	11.456	-21.266	1.00	0.00
ATOM	55	O	SER	0	-10.516	10.992	-21.980	1.00	0.00



ATOM	52	CB	SER	0	-9.243	13.925	-21.419	1.00	0.00
ATOM	53	OG	SER	0	-8.290	14.941	-21.694	1.00	0.00
ATOM	56	H	SER	0	-9.262	11.959	-23.743	1.00	0.00
ATOM	57	HA	SER	0	-7.720	12.413	-21.350	1.00	0.00
ATOM	58	1HB	SER	0	-9.477	13.945	-20.366	1.00	0.00
ATOM	59	2HB	SER	0	-10.137	14.125	-21.990	1.00	0.00
ATOM	60	HG	SER	0	-7.596	14.580	-22.265	1.00	0.00
ATOM	61	N	MET	1	-9.415	11.057	-20.019	1.00	0.00
ATOM	62	CA	MET	1	-10.231	10.029	-19.390	1.00	0.00
ATOM	67	C	MET	1	-10.257	10.245	-17.883	1.00	0.00
ATOM	68	O	MET	1	-9.394	10.934	-17.340	1.00	0.00
ATOM	63	CB	MET	1	-9.681	8.635	-19.713	1.00	0.00
ATOM	64	CG	MET	1	-10.576	7.827	-20.639	1.00	0.00
ATOM	65	SD	MET	1	-9.694	7.187	-22.077	1.00	0.00
ATOM	66	CE	MET	1	-10.598	5.668	-22.372	1.00	0.00
ATOM	69	H	MET	1	-8.690	11.469	-19.500	1.00	0.00
ATOM	70	HA	MET	1	-11.236	10.112	-19.777	1.00	0.00
ATOM	71	1HB	MET	1	-9.562	8.084	-18.791	1.00	0.00
ATOM	72	2HB	MET	1	-8.715	8.743	-20.184	1.00	0.00
ATOM	73	1HG	MET	1	-11.381	8.461	-20.982	1.00	0.00
ATOM	74	2HG	MET	1	-10.986	6.994	-20.087	1.00	0.00
ATOM	75	1HE	MET	1	-10.746	5.151	-21.436	1.00	0.00
ATOM	76	2HE	MET	1	-10.036	5.040	-23.046	1.00	0.00
ATOM	77	3HE	MET	1	-11.557	5.900	-22.811	1.00	0.00
ATOM	78	N	ALA	2	-11.243	9.662	-17.217	1.00	0.00
ATOM	79	CA	ALA	2	-11.373	9.798	-15.773	1.00	0.00
ATOM	81	C	ALA	2	-11.446	8.429	-15.109	1.00	0.00
ATOM	82	O	ALA	2	-12.362	7.647	-15.371	1.00	0.00
ATOM	80	CB	ALA	2	-12.606	10.622	-15.427	1.00	0.00
ATOM	83	H	ALA	2	-11.905	9.123	-17.711	1.00	0.00
ATOM	84	HA	ALA	2	-10.503	10.321	-15.406	1.00	0.00
ATOM	85	1HB	ALA	2	-13.154	10.134	-14.635	1.00	0.00
ATOM	86	2HB	ALA	2	-13.237	10.713	-16.300	1.00	0.00
ATOM	87	3HB	ALA	2	-12.301	11.605	-15.099	1.00	0.00
ATOM	88	N	THR	3	-10.472	8.142	-14.257	1.00	0.00
ATOM	89	CA	THR	3	-10.411	6.871	-13.559	1.00	0.00
ATOM	93	C	THR	3	-10.944	6.994	-12.129	1.00	0.00
ATOM	94	O	THR	3	-10.408	7.753	-11.314	1.00	0.00
ATOM	90	CB	THR	3	-8.964	6.313	-13.554	1.00	0.00
ATOM	91	OG1	THR	3	-8.198	6.911	-12.498	1.00	0.00
ATOM	92	CG2	THR	3	-8.267	6.593	-14.878	1.00	0.00
ATOM	95	H	THR	3	-9.769	8.803	-14.097	1.00	0.00
ATOM	96	HA	THR	3	-11.035	6.171	-14.096	1.00	0.00
ATOM	97	HB	THR	3	-9.005	5.248	-13.403	1.00	0.00
ATOM	98	HG1	THR	3	-8.802	7.306	-11.856	1.00	0.00
ATOM	99	1HG2	THR	3	-7.263	6.198	-14.846	1.00	0.00
ATOM	100	2HG2	THR	3	-8.230	7.659	-15.047	1.00	0.00
ATOM	101	3HG2	THR	3	-8.815	6.120	-15.679	1.00	0.00
ATOM	102	N	PRO	4	-12.023	6.255	-11.813	1.00	0.00
ATOM	103	CA	PRO	4	-12.650	6.273	-10.492	1.00	0.00
ATOM	107	C	PRO	4	-11.863	5.453	-9.474	1.00	0.00
ATOM	108	O	PRO	4	-11.372	4.367	-9.786	1.00	0.00
ATOM	104	CB	PRO	4	-14.032	5.638	-10.726	1.00	0.00
ATOM	105	CG	PRO	4	-14.137	5.407	-12.201	1.00	0.00
ATOM	106	CD	PRO	4	-12.732	5.349	-12.722	1.00	0.00
ATOM	109	HA	PRO	4	-12.772	7.282	-10.124	1.00	0.00
ATOM	110	1HB	PRO	4	-14.800	6.315	-10.380	1.00	0.00
ATOM	111	2HB	PRO	4	-14.097	4.710	-10.179	1.00	0.00
ATOM	112	1HG	PRO	4	-14.674	6.223	-12.662	1.00	0.00
ATOM	113	2HG	PRO	4	-14.645	4.473	-12.388	1.00	0.00
ATOM	114	1HD	PRO	4	-12.689	5.706	-13.740	1.00	0.00
ATOM	115	2HD	PRO	4	-12.343	4.340	-12.654	1.00	0.00
ATOM	116	N	ALA	5	-11.746	5.974	-8.257	1.00	0.00
ATOM	117	CA	ALA	5	-11.020	5.287	-7.197	1.00	0.00
ATOM	119	C	ALA	5	-11.718	5.478	-5.856	1.00	0.00
ATOM	120	O	ALA	5	-12.107	6.594	-5.502	1.00	0.00
ATOM	118	CB	ALA	5	-9.582	5.789	-7.126	1.00	0.00
ATOM	121	H	ALA	5	-12.163	6.841	-8.064	1.00	0.00
ATOM	122	HA	ALA	5	-11.000	4.234	-7.435	1.00	0.00
ATOM	123	1HB	ALA	5	-9.349	6.341	-8.026	1.00	0.00
ATOM	124	2HB	ALA	5	-8.911	4.947	-7.038	1.00	0.00
ATOM	125	3HB	ALA	5	-9.467	6.433	-6.269	1.00	0.00
ATOM	126	N	SER	6	-11.877	4.386	-5.120	1.00	0.00



ATOM	127	CA	SER	6	-12.527	4.425	-3.819	1.00	0.00
ATOM	130	C	SER	6	-11.588	4.982	-2.750	1.00	0.00
ATOM	131	O	SER	6	-10.366	4.958	-2.907	1.00	0.00
ATOM	128	CB	SER	6	-12.996	3.021	-3.429	1.00	0.00
ATOM	129	OG	SER	6	-13.709	2.412	-4.495	1.00	0.00
ATOM	132	H	SER	6	-11.544	3.523	-5.463	1.00	0.00
ATOM	133	HA	SER	6	-13.388	5.071	-3.900	1.00	0.00
ATOM	134	1HB	SER	6	-13.646	3.087	-2.569	1.00	0.00
ATOM	135	2HB	SER	6	-12.140	2.410	-3.188	1.00	0.00
ATOM	136	HG	SER	6	-14.387	3.024	-4.817	1.00	0.00
ATOM	137	N	ALA	7	-12.168	5.486	-1.668	1.00	0.00
ATOM	138	CA	ALA	7	-11.391	6.054	-0.576	1.00	0.00
ATOM	140	C	ALA	7	-10.930	4.970	0.394	1.00	0.00
ATOM	141	O	ALA	7	-11.735	4.165	0.866	1.00	0.00
ATOM	139	CB	ALA	7	-12.205	7.110	0.155	1.00	0.00
ATOM	142	H	ALA	7	-13.144	5.479	-1.602	1.00	0.00
ATOM	143	HA	ALA	7	-10.521	6.535	-1.002	1.00	0.00
ATOM	144	1HB	ALA	7	-12.856	7.610	-0.546	1.00	0.00
ATOM	145	2HB	ALA	7	-11.539	7.831	0.605	1.00	0.00
ATOM	146	3HB	ALA	7	-12.800	6.639	0.924	1.00	0.00
ATOM	147	N	PRO	8	-9.624	4.936	0.698	1.00	0.00
ATOM	148	CA	PRO	8	-9.041	3.953	1.616	1.00	0.00
ATOM	152	C	PRO	8	-9.441	4.226	3.064	1.00	0.00
ATOM	153	O	PRO	8	-8.881	5.102	3.723	1.00	0.00
ATOM	149	CB	PRO	8	-7.524	4.129	1.433	1.00	0.00
ATOM	150	CG	PRO	8	-7.362	5.010	0.236	1.00	0.00
ATOM	151	CD	PRO	8	-8.603	5.848	0.173	1.00	0.00
ATOM	154	HA	PRO	8	-9.326	2.945	1.348	1.00	0.00
ATOM	155	1HB	PRO	8	-7.067	3.163	1.272	1.00	0.00
ATOM	156	2HB	PRO	8	-7.105	4.587	2.317	1.00	0.00
ATOM	157	1HG	PRO	8	-7.271	4.407	-0.655	1.00	0.00
ATOM	158	2HG	PRO	8	-6.491	5.637	0.358	1.00	0.00
ATOM	159	1HD	PRO	8	-8.821	6.128	-0.847	1.00	0.00
ATOM	160	2HD	PRO	8	-8.504	6.725	0.798	1.00	0.00
ATOM	161	N	ASP	9	-10.429	3.484	3.542	1.00	0.00
ATOM	162	CA	ASP	9	-10.928	3.653	4.902	1.00	0.00
ATOM	167	C	ASP	9	-10.093	2.863	5.912	1.00	0.00
ATOM	168	O	ASP	9	-8.971	2.441	5.616	1.00	0.00
ATOM	163	CB	ASP	9	-12.395	3.224	4.981	1.00	0.00
ATOM	164	CG	ASP	9	-13.236	4.200	5.776	1.00	0.00
ATOM	165	OD1	ASP	9	-13.008	4.330	6.995	1.00	0.00
ATOM	166	OD2	ASP	9	-14.127	4.848	5.183	1.00	0.00
ATOM	169	H	ASP	9	-10.847	2.816	2.959	1.00	0.00
ATOM	170	HA	ASP	9	-10.860	4.703	5.147	1.00	0.00
ATOM	171	1HB	ASP	9	-12.456	2.254	5.455	1.00	0.00
ATOM	172	2HB	ASP	9	-12.799	3.158	3.983	1.00	0.00
ATOM	173	N	THR	10	-10.652	2.670	7.101	1.00	0.00
ATOM	174	CA	THR	10	-9.994	1.948	8.182	1.00	0.00
ATOM	178	C	THR	10	-9.566	0.548	7.755	1.00	0.00
ATOM	179	O	THR	10	-8.496	0.081	8.137	1.00	0.00
ATOM	175	CB	THR	10	-10.931	1.837	9.395	1.00	0.00
ATOM	176	OG1	THR	10	-12.291	1.936	8.950	1.00	0.00
ATOM	177	CG2	THR	10	-10.638	2.930	10.412	1.00	0.00
ATOM	180	H	THR	10	-11.549	3.036	7.265	1.00	0.00
ATOM	181	HA	THR	10	-9.120	2.511	8.478	1.00	0.00
ATOM	182	HB	THR	10	-10.779	0.874	9.863	1.00	0.00
ATOM	183	HG1	THR	10	-12.869	2.139	9.708	1.00	0.00
ATOM	184	1HG2	THR	10	-10.755	3.897	9.945	1.00	0.00
ATOM	185	2HG2	THR	10	-9.625	2.824	10.772	1.00	0.00
ATOM	186	3HG2	THR	10	-11.325	2.844	11.241	1.00	0.00
ATOM	187	N	ARG	11	-10.398	-0.119	6.960	1.00	0.00
ATOM	188	CA	ARG	11	-10.087	-1.466	6.489	1.00	0.00
ATOM	196	C	ARG	11	-8.836	-1.458	5.621	1.00	0.00
ATOM	197	O	ARG	11	-8.037	-2.389	5.664	1.00	0.00
ATOM	189	CB	ARG	11	-11.263	-2.063	5.712	1.00	0.00
ATOM	190	CG	ARG	11	-11.096	-3.545	5.405	1.00	0.00
ATOM	191	CD	ARG	11	-12.003	-3.992	4.270	1.00	0.00
ATOM	192	NE	ARG	11	-11.453	-3.656	2.956	1.00	0.00
ATOM	193	CZ	ARG	11	-12.165	-3.106	1.969	1.00	0.00
ATOM	194	NH1	ARG	11	-13.447	-2.808	2.155	1.00	0.00
ATOM	195	NH2	ARG	11	-11.587	-2.848	0.802	1.00	0.00
ATOM	198	H	ARG	11	-11.240	0.307	6.686	1.00	0.00
ATOM	199	HA	ARG	11	-9.890	-2.080	7.356	1.00	0.00



ATOM	200	1HB	ARG	11	-11.370	-1.533	4.778	1.00	0.00
ATOM	201	2HB	ARG	11	-12.166	-1.935	6.293	1.00	0.00
ATOM	202	1HG	ARG	11	-11.336	-4.115	6.291	1.00	0.00
ATOM	203	2HG	ARG	11	-10.070	-3.730	5.124	1.00	0.00
ATOM	204	1HD	ARG	11	-12.961	-3.508	4.382	1.00	0.00
ATOM	205	2HD	ARG	11	-12.131	-5.061	4.330	1.00	0.00
ATOM	206	HE	ARG	11	-10.504	-3.861	2.798	1.00	0.00
ATOM	207	1HH1	ARG	11	-13.890	-2.992	3.042	1.00	0.00
ATOM	208	2HH1	ARG	11	-13.989	-2.402	1.407	1.00	0.00
ATOM	209	1HH2	ARG	11	-10.611	-3.066	0.660	1.00	0.00
ATOM	210	2HH2	ARG	11	-12.118	-2.437	0.048	1.00	0.00
ATOM	211	N	ALA	12	-8.657	-0.399	4.852	1.00	0.00
ATOM	212	CA	ALA	12	-7.485	-0.282	4.004	1.00	0.00
ATOM	214	C	ALA	12	-6.273	0.079	4.849	1.00	0.00
ATOM	215	O	ALA	12	-5.157	-0.362	4.583	1.00	0.00
ATOM	213	CB	ALA	12	-7.711	0.753	2.915	1.00	0.00
ATOM	216	H	ALA	12	-9.313	0.329	4.869	1.00	0.00
ATOM	217	HA	ALA	12	-7.313	-1.240	3.534	1.00	0.00
ATOM	218	1HB	ALA	12	-8.250	0.304	2.095	1.00	0.00
ATOM	219	2HB	ALA	12	-6.757	1.117	2.562	1.00	0.00
ATOM	220	3HB	ALA	12	-8.284	1.577	3.315	1.00	0.00
ATOM	221	N	LEU	13	-6.506	0.882	5.881	1.00	0.00
ATOM	222	CA	LEU	13	-5.437	1.304	6.772	1.00	0.00
ATOM	227	C	LEU	13	-4.972	0.146	7.661	1.00	0.00
ATOM	228	O	LEU	13	-3.772	-0.049	7.850	1.00	0.00
ATOM	223	CB	LEU	13	-5.896	2.496	7.613	1.00	0.00
ATOM	224	CG	LEU	13	-5.176	2.680	8.948	1.00	0.00
ATOM	225	CD1	LEU	13	-3.945	3.557	8.778	1.00	0.00
ATOM	226	CD2	LEU	13	-6.122	3.278	9.974	1.00	0.00
ATOM	229	H	LEU	13	-7.426	1.203	6.045	1.00	0.00
ATOM	230	HA	LEU	13	-4.606	1.616	6.156	1.00	0.00
ATOM	231	1HB	LEU	13	-6.952	2.384	7.812	1.00	0.00
ATOM	232	2HB	LEU	13	-5.751	3.393	7.026	1.00	0.00
ATOM	233	HG	LEU	13	-4.851	1.715	9.311	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.978	4.041	7.812	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.056	2.946	8.844	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.926	4.306	9.555	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.885	2.888	10.952	1.00	0.00
ATOM	238	2HD2	LEU	13	-7.140	3.020	9.719	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.013	4.353	9.980	1.00	0.00
ATOM	240	N	VAL	14	-5.916	-0.631	8.192	1.00	0.00
ATOM	241	CA	VAL	14	-5.568	-1.768	9.039	1.00	0.00
ATOM	245	C	VAL	14	-4.815	-2.812	8.216	1.00	0.00
ATOM	246	O	VAL	14	-3.881	-3.453	8.701	1.00	0.00
ATOM	242	CB	VAL	14	-6.810	-2.411	9.726	1.00	0.00
ATOM	243	CG1	VAL	14	-7.702	-3.133	8.727	1.00	0.00
ATOM	244	CG2	VAL	14	-6.377	-3.359	10.836	1.00	0.00
ATOM	247	H	VAL	14	-6.862	-0.438	8.004	1.00	0.00
ATOM	248	HA	VAL	14	-4.905	-1.405	9.814	1.00	0.00
ATOM	249	HB	VAL	14	-7.392	-1.621	10.176	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.405	-3.758	9.259	1.00	0.00
ATOM	251	2HG1	VAL	14	-7.094	-3.746	8.079	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.241	-2.408	8.136	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.312	-3.273	10.988	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.621	-4.374	10.559	1.00	0.00
ATOM	255	3HG2	VAL	14	-6.893	-3.103	11.750	1.00	0.00
ATOM	256	N	ALA	15	-5.213	-2.954	6.955	1.00	0.00
ATOM	257	CA	ALA	15	-4.566	-3.891	6.052	1.00	0.00
ATOM	259	C	ALA	15	-3.194	-3.367	5.636	1.00	0.00
ATOM	260	O	ALA	15	-2.330	-4.134	5.225	1.00	0.00
ATOM	258	CB	ALA	15	-5.433	-4.140	4.828	1.00	0.00
ATOM	261	H	ALA	15	-5.956	-2.401	6.623	1.00	0.00
ATOM	262	HA	ALA	15	-4.441	-4.828	6.576	1.00	0.00
ATOM	263	1HB	ALA	15	-5.912	-3.220	4.532	1.00	0.00
ATOM	264	2HB	ALA	15	-6.185	-4.879	5.062	1.00	0.00
ATOM	265	3HB	ALA	15	-4.815	-4.501	4.018	1.00	0.00
ATOM	266	N	ASP	16	-3.011	-2.056	5.751	1.00	0.00
ATOM	267	CA	ASP	16	-1.748	-1.412	5.394	1.00	0.00
ATOM	272	C	ASP	16	-0.693	-1.657	6.462	1.00	0.00
ATOM	273	O	ASP	16	0.323	-2.299	6.203	1.00	0.00
ATOM	268	CB	ASP	16	-1.959	0.095	5.201	1.00	0.00
ATOM	269	CG	ASP	16	-0.704	0.927	5.441	1.00	0.00
ATOM	270	OD1	ASP	16	0.308	0.702	4.750	1.00	0.00



ATOM	271	OD2	ASP	16	-0.751	1.839	6.298	1.00	0.00
ATOM	274	H	ASP	16	-3.746	-1.501	6.087	1.00	0.00
ATOM	275	HA	ASP	16	-1.409	-1.841	4.465	1.00	0.00
ATOM	276	1HB	ASP	16	-2.725	0.431	5.887	1.00	0.00
ATOM	277	2HB	ASP	16	-2.291	0.275	4.190	1.00	0.00
ATOM	278	N	PHE	17	-0.945	-1.139	7.660	1.00	0.00
ATOM	279	CA	PHE	17	-0.017	-1.281	8.775	1.00	0.00
ATOM	287	C	PHE	17	0.326	-2.741	9.033	1.00	0.00
ATOM	288	O	PHE	17	1.499	-3.112	9.060	1.00	0.00
ATOM	280	CB	PHE	17	-0.595	-0.650	10.045	1.00	0.00
ATOM	281	CG	PHE	17	0.460	-0.232	11.029	1.00	0.00
ATOM	282	CD1	PHE	17	1.550	0.521	10.621	1.00	0.00
ATOM	283	CD2	PHE	17	0.370	-0.604	12.361	1.00	0.00
ATOM	284	CE1	PHE	17	-2.527	0.896	11.523	1.00	0.00
ATOM	285	CE2	PHE	17	1.345	-0.234	13.266	1.00	0.00
ATOM	286	CZ	PHE	17	2.426	0.517	12.846	1.00	0.00
ATOM	289	H	PHE	17	-1.776	-0.633	7.790	1.00	0.00
ATOM	290	HA	PHE	17	0.891	-0.758	8.513	1.00	0.00
ATOM	291	1HB	PHE	17	-1.242	-1.366	10.532	1.00	0.00
ATOM	292	2HB	PHE	17	-1.170	0.224	9.777	1.00	0.00
ATOM	293	HD1	PHE	17	-0.476	-1.191	12.691	1.00	0.00
ATOM	294	HD2	PHE	17	1.630	0.820	9.586	1.00	0.00
ATOM	295	HE1	PHE	17	1.263	-0.531	14.301	1.00	0.00
ATOM	296	HE2	PHE	17	3.370	1.484	11.192	1.00	0.00
ATOM	297	HZ	PHE	17	3.190	0.807	13.554	1.00	0.00
ATOM	298	N	VAL	18	-0.694	-3.567	9.215	1.00	0.00
ATOM	299	CA	VAL	18	-0.480	-4.985	9.465	1.00	0.00
ATOM	303	C	VAL	18	0.092	-5.658	8.221	1.00	0.00
ATOM	304	O	VAL	18	0.980	-6.499	8.316	1.00	0.00
ATOM	300	CB	VAL	18	-1.789	-5.690	9.891	1.00	0.00
ATOM	301	CG1	VAL	18	-1.551	-7.166	10.165	1.00	0.00
ATOM	302	CG2	VAL	18	-2.385	-5.009	11.116	1.00	0.00
ATOM	305	H	VAL	18	-1.611	-3.216	9.177	1.00	0.00
ATOM	306	HA	VAL	18	0.241	-5.078	10.271	1.00	0.00
ATOM	307	HB	VAL	18	-2.500	-5.607	9.081	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.986	-7.276	11.080	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.995	-7.599	9.345	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.499	-7.672	10.265	1.00	0.00
ATOM	311	1HG2	VAL	18	-3.444	-4.857	10.963	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.903	-4.055	11.268	1.00	0.00
ATOM	313	3HG2	VAL	18	-2.233	-5.633	11.985	1.00	0.00
ATOM	314	N	GLY	19	-0.405	-5.265	7.055	1.00	0.00
ATOM	315	CA	GLY	19	0.083	-5.828	5.811	1.00	0.00
ATOM	316	C	GLY	19	1.564	-5.594	5.619	1.00	0.00
ATOM	317	O	GLY	19	2.318	-6.534	5.407	1.00	0.00
ATOM	318	H	GLY	19	-1.099	-4.573	7.036	1.00	0.00
ATOM	319	1HA	GLY	19	-0.452	-5.378	4.989	1.00	0.00
ATOM	320	2HA	GLY	19	-0.106	-6.892	5.812	1.00	0.00
ATOM	321	N	TYR	20	1.972	-4.337	5.692	1.00	0.00
ATOM	322	CA	TYR	20	3.369	-3.955	5.529	1.00	0.00
ATOM	331	C	TYR	20	4.239	-4.587	6.613	1.00	0.00
ATOM	332	O	TYR	20	5.327	-5.081	6.335	1.00	0.00
ATOM	323	CB	TYR	20	3.498	-2.427	5.582	1.00	0.00
ATOM	324	CG	TYR	20	4.833	-1.905	5.099	1.00	0.00
ATOM	325	CD1	TYR	20	5.906	-1.775	5.971	1.00	0.00
ATOM	326	CD2	TYR	20	5.018	-1.539	3.773	1.00	0.00
ATOM	327	CE1	TYR	20	7.126	-1.298	5.533	1.00	0.00
ATOM	328	CE2	TYR	20	6.233	-1.061	3.328	1.00	0.00
ATOM	329	CZ	TYR	20	7.285	-0.942	4.211	1.00	0.00
ATOM	330	OH	TYR	20	8.496	-0.465	3.772	1.00	0.00
ATOM	333	H	TYR	20	1.308	-3.632	5.858	1.00	0.00
ATOM	334	HA	TYR	20	3.698	-4.301	4.561	1.00	0.00
ATOM	335	1HB	TYR	20	3.361	-2.097	6.601	1.00	0.00
ATOM	336	2HB	TYR	20	2.730	-1.989	4.961	1.00	0.00
ATOM	337	HD1	TYR	20	5.777	-2.055	7.006	1.00	0.00
ATOM	338	HD2	TYR	20	4.192	-1.632	3.083	1.00	0.00
ATOM	339	HE1	TYR	20	7.948	-1.205	6.228	1.00	0.00
ATOM	340	HE2	TYR	20	6.358	-0.782	2.291	1.00	0.00
ATOM	341	HH	TYR	20	8.486	-0.393	2.808	1.00	0.00
ATOM	342	N	LYS	21	3.748	-4.560	7.844	1.00	0.00
ATOM	343	CA	LYS	21	4.462	-5.117	8.990	1.00	0.00
ATOM	349	C	LYS	21	4.703	-6.612	8.820	1.00	0.00
ATOM	350	O	LYS	21	5.770	-7.126	9.156	1.00	0.00



ATOM	344	CB	LYS	21	3.662	-4.859	10.270	1.00	0.00
ATOM	345	CG	LYS	21	4.162	-3.670	11.083	1.00	0.00
ATOM	346	CD	LYS	21	5.628	-3.820	11.468	1.00	0.00
ATOM	347	CE	LYS	21	6.280	-2.468	11.724	1.00	0.00
ATOM	348	NZ	LYS	21	7.728	-2.595	12.036	1.00	0.00
ATOM	351	H	LYS	21	2.872	-4.148	7.990	1.00	0.00
ATOM	352	HA	LYS	21	5.416	-4.618	9.064	1.00	0.00
ATOM	353	1HB	LYS	21	3.694	-5.738	10.893	1.00	0.00
ATOM	354	2HB	LYS	21	2.634	-4.667	9.997	1.00	0.00
ATOM	355	1HG	LYS	21	3.569	-3.592	11.983	1.00	0.00
ATOM	356	2HG	LYS	21	4.044	-2.773	10.494	1.00	0.00
ATOM	357	1HD	LYS	21	6.152	-4.316	10.663	1.00	0.00
ATOM	358	2HD	LYS	21	5.695	-4.416	12.365	1.00	0.00
ATOM	359	1HE	LYS	21	5.781	-1.994	12.557	1.00	0.00
ATOM	360	2HE	LYS	21	6.167	-1.855	10.843	1.00	0.00
ATOM	361	1HZ	LYS	21	8.149	-3.372	11.487	1.00	0.00
ATOM	362	2HZ	LYS	21	7.860	-2.791	13.058	1.00	0.00
ATOM	363	3HZ	LYS	21	8.227	-1.709	11.805	1.00	0.00
ATOM	364	N	LEU	22	3.705	-7.303	8.298	1.00	0.00
ATOM	365	CA	LEU	22	3.799	-8.737	8.083	1.00	0.00
ATOM	370	C	LEU	22	4.596	-9.024	6.823	1.00	0.00
ATOM	371	O	LEU	22	5.480	-9.875	6.817	1.00	0.00
ATOM	366	CB	LEU	22	2.401	-9.351	7.960	1.00	0.00
ATOM	367	CG	LEU	22	1.763	-9.832	9.268	1.00	0.00
ATOM	368	CD1	LEU	22	1.786	-8.733	10.315	1.00	0.00
ATOM	369	CD2	LEU	22	0.336	-10.294	9.016	1.00	0.00
ATOM	372	H	LEU	22	2.881	-6.836	8.052	1.00	0.00
ATOM	373	HA	LEU	22	4.306	-9.172	8.931	1.00	0.00
ATOM	374	1HB	LEU	22	2.464	-10.195	7.289	1.00	0.00
ATOM	375	2HB	LEU	22	1.747	-8.614	7.519	1.00	0.00
ATOM	376	HG	LEU	22	2.323	-10.672	9.654	1.00	0.00
ATOM	377	1HD1	LEU	22	2.485	-7.966	10.014	1.00	0.00
ATOM	378	2HD1	LEU	22	2.092	-9.148	11.263	1.00	0.00
ATOM	379	3HD1	LEU	22	0.800	-8.305	10.408	1.00	0.00
ATOM	380	1HD2	LEU	22	0.325	-11.010	8.207	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.276	-9.443	8.752	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.056	-10.755	9.911	1.00	0.00
ATOM	383	N	ARG	23	4.269	-8.306	5.755	1.00	0.00
ATOM	384	CA	ARG	23	4.934	-8.469	4.464	1.00	0.00
ATOM	392	C	ARG	23	6.414	-8.096	4.548	1.00	0.00
ATOM	393	O	ARG	23	7.201	-8.468	3.680	1.00	0.00
ATOM	385	CB	ARG	23	4.211	-7.631	3.393	1.00	0.00
ATOM	386	CG	ARG	23	4.567	-7.987	1.961	1.00	0.00
ATOM	387	CD	ARG	23	4.064	-6.923	0.995	1.00	0.00
ATOM	388	NE	ARG	23	4.989	-5.795	0.892	1.00	0.00
ATOM	389	CZ	ARG	23	5.957	-5.692	-0.020	1.00	0.00
ATOM	390	NH1	ARG	23	6.117	-6.628	-0.945	1.00	0.00
ATOM	391	NH2	ARG	23	6.754	-4.631	-0.024	1.00	0.00
ATOM	394	H	ARG	23	3.548	-7.642	5.834	1.00	0.00
ATOM	395	HA	ARG	23	4.862	-9.513	4.193	1.00	0.00
ATOM	396	1HB	ARG	23	4.438	-6.591	3.543	1.00	0.00
ATOM	397	2HB	ARG	23	3.147	-7.771	3.511	1.00	0.00
ATOM	398	1HG	ARG	23	4.113	-8.934	1.709	1.00	0.00
ATOM	399	2HG	ARG	23	5.640	-8.062	1.875	1.00	0.00
ATOM	400	1HD	ARG	23	3.102	-6.553	1.345	1.00	0.00
ATOM	401	2HD	ARG	23	3.945	-7.367	0.018	1.00	0.00
ATOM	402	HE	ARG	23	4.880	-5.063	1.544	1.00	0.00
ATOM	403	1HH1	ARG	23	5.510	-7.423	-0.973	1.00	0.00
ATOM	404	2HH1	ARG	23	6.852	-6.538	-1.628	1.00	0.00
ATOM	405	1HH2	ARG	23	6.633	-3.902	0.654	1.00	0.00
ATOM	406	2HH2	ARG	23	7.485	-4.555	-0.710	1.00	0.00
ATOM	407	N	GLN	24	6.795	-7.372	5.598	1.00	0.00
ATOM	408	CA	GLN	24	8.188	-6.983	5.770	1.00	0.00
ATOM	414	C	GLN	24	8.984	-8.090	6.465	1.00	0.00
ATOM	415	O	GLN	24	10.203	-8.173	6.311	1.00	0.00
ATOM	409	CB	GLN	24	8.304	-5.659	6.534	1.00	0.00
ATOM	410	CG	GLN	24	8.530	-5.830	8.019	1.00	0.00
ATOM	411	CD	GLN	24	8.790	-4.525	8.751	1.00	0.00
ATOM	412	OE1	GLN	24	8.400	-4.361	9.909	1.00	0.00
ATOM	413	NE2	GLN	24	9.462	-3.593	8.090	1.00	0.00
ATOM	416	H	GLN	24	6.129	-7.100	6.273	1.00	0.00
ATOM	417	HA	GLN	24	8.599	-6.842	4.792	1.00	0.00
ATOM	418	1HB	GLN	24	7.393	-5.095	6.394	1.00	0.00



ATOM	419	2HB	GLN	24	9.131	-5.095	6.131	1.00	0.00
ATOM	420	1HG	GLN	24	9.379	-6.482	8.165	1.00	0.00
ATOM	421	2HG	GLN	24	7.655	-6.296	8.435	1.00	0.00
ATOM	422	1HE2	GLN	24	9.752	-3.789	7.168	1.00	0.00
ATOM	423	2HE2	GLN	24	9.655	-2.745	8.551	1.00	0.00
ATOM	424	N	LYS	25	8.295	-8.945	7.222	1.00	0.00
ATOM	425	CA	LYS	25	8.959	-10.044	7.925	1.00	0.00
ATOM	431	C	LYS	25	7.971	-11.150	8.311	1.00	0.00
ATOM	432	O	LYS	25	7.580	-11.277	9.472	1.00	0.00
ATOM	426	CB	LYS	25	9.696	-9.533	9.175	1.00	0.00
ATOM	427	CG	LYS	25	8.876	-8.599	10.054	1.00	0.00
ATOM	428	CD	LYS	25	9.768	-7.630	10.813	1.00	0.00
ATOM	429	CE	LYS	25	9.207	-7.312	12.190	1.00	0.00
ATOM	430	NZ	LYS	25	10.277	-6.909	13.141	1.00	0.00
ATOM	433	H	LYS	25	7.318	-8.838	7.306	1.00	0.00
ATOM	434	HA	LYS	25	9.686	-10.466	7.246	1.00	0.00
ATOM	435	1HB	LYS	25	10.584	-9.003	8.859	1.00	0.00
ATOM	436	2HB	LYS	25	9.993	-10.381	9.773	1.00	0.00
ATOM	437	1HG	LYS	25	8.314	-9.190	10.764	1.00	0.00
ATOM	438	2HG	LYS	25	8.197	-8.036	9.432	1.00	0.00
ATOM	439	1HD	LYS	25	9.849	-6.714	10.247	1.00	0.00
ATOM	440	2HD	LYS	25	10.747	-8.072	10.928	1.00	0.00
ATOM	441	1HE	LYS	25	8.707	-8.189	12.573	1.00	0.00
ATOM	442	2HE	LYS	25	8.496	-6.505	12.097	1.00	0.00
ATOM	443	1HZ	LYS	25	9.928	-6.173	13.788	1.00	0.00
ATOM	444	2HZ	LYS	25	11.098	-6.530	12.618	1.00	0.00
ATOM	445	3HZ	LYS	25	10.592	-7.733	13.701	1.00	0.00
ATOM	446	N	GLY	26	7.574	-11.954	7.334	1.00	0.00
ATOM	447	CA	GLY	26	6.644	-13.039	7.601	1.00	0.00
ATOM	448	C	GLY	26	5.743	-13.322	6.425	1.00	0.00
ATOM	449	O	GLY	26	5.855	-14.358	5.770	1.00	0.00
ATOM	450	H	GLY	26	7.913	-11.811	6.426	1.00	0.00
ATOM	451	1HA	GLY	26	6.032	-12.772	8.450	1.00	0.00
ATOM	452	2HA	GLY	26	7.198	-13.933	7.841	1.00	0.00
ATOM	453	N	TYR	27	4.861	-12.386	6.153	1.00	0.00
ATOM	454	CA	TYR	27	3.918	-12.483	5.052	1.00	0.00
ATOM	463	C	TYR	27	4.576	-11.994	3.763	1.00	0.00
ATOM	464	O	TYR	27	4.047	-11.129	3.067	1.00	0.00
ATOM	455	CB	TYR	27	2.684	-11.640	5.388	1.00	0.00
ATOM	456	CG	TYR	27	1.425	-12.005	4.636	1.00	0.00
ATOM	457	CD1	TYR	27	1.140	-13.319	4.290	1.00	0.00
ATOM	458	CD2	TYR	27	0.511	-11.020	4.286	1.00	0.00
ATOM	459	CE1	TYR	27	-0.023	-13.639	3.613	1.00	0.00
ATOM	460	CE2	TYR	27	-0.650	-11.330	3.609	1.00	0.00
ATOM	461	CZ	TYR	27	-0.914	-12.640	3.274	1.00	0.00
ATOM	462	OH	TYR	27	-2.076	-12.951	2.604	1.00	0.00
ATOM	465	H	TYR	27	4.849	-11.579	6.714	1.00	0.00
ATOM	466	HA	TYR	27	3.630	-13.517	4.939	1.00	0.00
ATOM	467	1HB	TYR	27	2.905	-10.603	5.182	1.00	0.00
ATOM	468	2HB	TYR	27	2.470	-11.746	6.441	1.00	0.00
ATOM	469	HD1	TYR	27	1.840	-14.096	4.555	1.00	0.00
ATOM	470	HD2	TYR	27	0.721	-9.992	4.548	1.00	0.00
ATOM	471	HE1	TYR	27	-0.230	-14.666	3.351	1.00	0.00
ATOM	472	HE2	TYR	27	-1.346	-10.548	3.344	1.00	0.00
ATOM	473	HH	TYR	27	-1.876	-13.115	1.676	1.00	0.00
ATOM	474	N	VAL	28	5.745	-12.547	3.463	1.00	0.00
ATOM	475	CA	VAL	28	6.491	-12.162	2.272	1.00	0.00
ATOM	479	C	VAL	28	5.907	-12.828	1.037	1.00	0.00
ATOM	480	O	VAL	28	5.790	-12.207	-0.019	1.00	0.00
ATOM	476	CB	VAL	28	7.987	-12.527	2.394	1.00	0.00
ATOM	477	CG1	VAL	28	8.807	-11.802	1.335	1.00	0.00
ATOM	478	CG2	VAL	28	8.507	-12.205	3.790	1.00	0.00
ATOM	481	H	VAL	28	6.119	-13.228	4.065	1.00	0.00
ATOM	482	HA	VAL	28	6.409	-11.093	2.162	1.00	0.00
ATOM	483	HB	VAL	28	8.092	-13.589	2.232	1.00	0.00
ATOM	484	1HG1	VAL	28	9.330	-10.973	1.788	1.00	0.00
ATOM	485	2HG1	VAL	28	8.149	-11.432	0.562	1.00	0.00
ATOM	486	3HG1	VAL	28	9.522	-12.486	0.902	1.00	0.00
ATOM	487	1HG2	VAL	28	7.675	-11.968	4.437	1.00	0.00
ATOM	488	2HG2	VAL	28	9.175	-11.358	3.740	1.00	0.00
ATOM	489	3HG2	VAL	28	9.037	-13.059	4.183	1.00	0.00
ATOM	490	N	CYS	29	5.523	-14.088	1.185	1.00	0.00
ATOM	491	CA	CYS	29	4.927	-14.839	0.090	1.00	0.00



ATOM	494	C	CYS	29	3.606	-14.198	-0.310	1.00	0.00
ATOM	495	O	CYS	29	3.286	-14.072	-1.492	1.00	0.00
ATOM	492	CB	CYS	29	4.701	-16.291	0.510	1.00	0.00
ATOM	493	SG	CYS	29	5.197	-16.649	2.214	1.00	0.00
ATOM	496	H	CYS	29	5.632	-14.521	2.056	1.00	0.00
ATOM	497	HA	CYS	29	5.606	-14.809	-0.750	1.00	0.00
ATOM	498	1HB	CYS	29	5.266	-16.936	-0.140	1.00	0.00
ATOM	499	2HB	CYS	29	3.651	-16.526	0.418	1.00	0.00
ATOM	500	HG	CYS	29	5.191	-17.971	2.365	1.00	0.00
ATOM	501	N	GLY	30	2.856	-13.773	0.696	1.00	0.00
ATOM	502	CA	GLY	30	1.584	-13.125	0.461	1.00	0.00
ATOM	503	C	GLY	30	1.733	-11.631	0.280	1.00	0.00
ATOM	504	O	GLY	30	1.058	-10.841	0.943	1.00	0.00
ATOM	505	H	GLY	30	3.182	-13.888	1.610	1.00	0.00
ATOM	506	1HA	GLY	30	0.938	-13.309	1.300	1.00	0.00
ATOM	507	2HA	GLY	30	1.135	-13.543	-0.428	1.00	0.00
ATOM	508	N	ALA	31	2.620	-11.247	-0.619	1.00	0.00
ATOM	509	CA	ALA	31	2.865	-9.844	-0.905	1.00	0.00
ATOM	511	C	ALA	31	1.624	-9.221	-1.528	1.00	0.00
ATOM	512	O	ALA	31	1.115	-9.717	-2.531	1.00	0.00
ATOM	510	CB	ALA	31	4.063	-9.693	-1.831	1.00	0.00
ATOM	513	H	ALA	31	3.120	-11.933	-1.110	1.00	0.00
ATOM	514	HA	ALA	31	3.085	-9.341	0.026	1.00	0.00
ATOM	515	1HB	ALA	31	3.775	-9.957	-2.838	1.00	0.00
ATOM	516	2HB	ALA	31	4.857	-10.346	-1.500	1.00	0.00
ATOM	517	3HB	ALA	31	4.406	-8.669	-1.811	1.00	0.00
ATOM	518	N	GLY	32	1.124	-8.148	-0.928	1.00	0.00
ATOM	519	CA	GLY	32	-0.070	-7.519	-1.462	1.00	0.00
ATOM	520	C	GLY	32	-0.566	-6.349	-0.630	1.00	0.00
ATOM	521	O	GLY	32	-0.756	-5.258	-1.159	1.00	0.00
ATOM	522	H	GLY	32	1.556	-7.790	-0.120	1.00	0.00
ATOM	523	1HA	GLY	32	-0.855	-8.260	-1.519	1.00	0.00
ATOM	524	2HA	GLY	32	0.143	-7.166	-2.459	1.00	0.00
ATOM	525	N	PRO	33	-0.802	-6.536	0.681	1.00	0.00
ATOM	526	CA	PRO	33	-1.299	-5.467	1.549	1.00	0.00
ATOM	530	C	PRO	33	-0.236	-4.415	1.836	1.00	0.00
ATOM	531	O	PRO	33	-0.475	-3.218	1.691	1.00	0.00
ATOM	527	CB	PRO	33	-1.695	-6.201	2.841	1.00	0.00
ATOM	528	CG	PRO	33	-1.663	-7.654	2.501	1.00	0.00
ATOM	529	CD	PRO	33	-0.629	-7.787	1.427	1.00	0.00
ATOM	532	HA	PRO	33	-2.169	-4.990	1.124	1.00	0.00
ATOM	533	1HB	PRO	33	-2.679	-5.889	3.146	1.00	0.00
ATOM	534	2HB	PRO	33	-0.984	-5.965	3.620	1.00	0.00
ATOM	535	1HG	PRO	33	-2.629	-7.969	2.134	1.00	0.00
ATOM	536	2HG	PRO	33	-1.382	-8.230	3.370	1.00	0.00
ATOM	537	1HD	PRO	33	-0.823	-8.642	0.804	1.00	0.00
ATOM	538	2HD	PRO	33	0.360	-7.847	1.860	1.00	0.00
ATOM	539	N	GLY	34	0.936	-4.876	2.245	1.00	0.00
ATOM	540	CA	GLY	34	2.026	-3.974	2.561	1.00	0.00
ATOM	541	C	GLY	34	2.862	-3.583	1.361	1.00	0.00
ATOM	542	O	GLY	34	4.048	-3.290	1.503	1.00	0.00
ATOM	543	H	GLY	34	1.057	-5.840	2.341	1.00	0.00
ATOM	544	1HA	GLY	34	2.668	-4.455	3.283	1.00	0.00
ATOM	545	2HA	GLY	34	1.620	-3.079	3.008	1.00	0.00
ATOM	546	N	GLU	35	2.263	-3.580	0.180	1.00	0.00
ATOM	547	CA	GLU	35	2.991	-3.211	-1.027	1.00	0.00
ATOM	553	C	GLU	35	2.922	-1.708	-1.244	1.00	0.00
ATOM	554	O	GLU	35	3.801	-1.108	-1.867	1.00	0.00
ATOM	548	CB	GLU	35	2.422	-3.930	-2.242	1.00	0.00
ATOM	549	CG	GLU	35	2.423	-5.431	-2.089	1.00	0.00
ATOM	550	CD	GLU	35	2.969	-6.146	-3.303	1.00	0.00
ATOM	551	OE1	GLU	35	2.291	-6.148	-4.351	1.00	0.00
ATOM	552	OE2	GLU	35	4.074	-6.717	-3.209	1.00	0.00
ATOM	555	H	GLU	35	1.315	-3.825	0.118	1.00	0.00
ATOM	556	HA	GLU	35	4.021	-3.506	-0.888	1.00	0.00
ATOM	557	1HB	GLU	35	3.013	-3.675	-3.110	1.00	0.00
ATOM	558	2HB	GLU	35	1.404	-3.602	-2.400	1.00	0.00
ATOM	559	1HG	GLU	35	1.408	-5.761	-1.919	1.00	0.00
ATOM	560	2HG	GLU	35	3.029	-5.685	-1.233	1.00	0.00
ATOM	561	N	GLY	36	1.867	-1.110	-0.719	1.00	0.00
ATOM	562	CA	GLY	36	1.676	0.318	-0.846	1.00	0.00
ATOM	563	C	GLY	36	2.423	1.095	0.219	1.00	0.00
ATOM	564	O	GLY	36	2.600	0.607	1.335	1.00	0.00



ATOM	565	H	GLY	36	1.211	-1.650	-0.230	1.00	0.00
ATOM	566	1HA	GLY	36	0.621	0.537	-0.765	1.00	0.00
ATOM	567	2HA	GLY	36	2.025	0.633	-1.817	1.00	0.00
ATOM	568	N	PRO	37	2.889	2.309	-0.103	1.00	0.00
ATOM	569	CA	PRO	37	3.630	3.145	0.825	1.00	0.00
ATOM	573	C	PRO	37	2.740	4.148	1.561	1.00	0.00
ATOM	574	O	PRO	37	1.532	3.943	1.716	1.00	0.00
ATOM	570	CB	PRO	37	4.590	3.863	-0.114	1.00	0.00
ATOM	571	CG	PRO	37	3.827	4.028	-1.395	1.00	0.00
ATOM	572	CD	PRO	37	2.751	2.963	-1.413	1.00	0.00
ATOM	575	HA	PRO	37	4.187	2.557	1.539	1.00	0.00
ATOM	576	1HB	PRO	37	5.473	3.260	-0.259	1.00	0.00
ATOM	577	2HB	PRO	37	4.864	4.818	0.311	1.00	0.00
ATOM	578	1HG	PRO	37	4.495	3.896	-2.233	1.00	0.00
ATOM	579	2HG	PRO	37	3.379	5.010	-1.427	1.00	0.00
ATOM	580	1HD	PRO	37	2.929	2.262	-2.215	1.00	0.00
ATOM	581	2HD	PRO	37	1.775	3.414	-1.515	1.00	0.00
ATOM	582	N	ALA	38	3.342	5.239	2.006	1.00	0.00
ATOM	583	CA	ALA	38	2.623	6.282	2.716	1.00	0.00
ATOM	585	C	ALA	38	2.061	7.306	1.736	1.00	0.00
ATOM	586	O	ALA	38	2.693	8.322	1.461	1.00	0.00
ATOM	584	CB	ALA	38	3.549	6.953	3.715	1.00	0.00
ATOM	587	H	ALA	38	4.308	5.349	1.846	1.00	0.00
ATOM	588	HA	ALA	38	1.807	5.826	3.261	1.00	0.00
ATOM	589	1HB	ALA	38	3.553	8.018	3.544	1.00	0.00
ATOM	590	2HB	ALA	38	4.550	6.564	3.595	1.00	0.00
ATOM	591	3HB	ALA	38	-3.202	6.752	4.719	1.00	0.00
ATOM	592	N	ALA	39	0.875	7.031	1.204	1.00	0.00
ATOM	593	CA	ALA	39	0.245	7.934	0.247	1.00	0.00
ATOM	595	C	ALA	39	-1.190	8.215	0.653	1.00	0.00
ATOM	596	O	ALA	39	-2.029	8.590	-0.168	1.00	0.00
ATOM	594	CB	ALA	39	0.297	7.337	-1.151	1.00	0.00
ATOM	597	H	ALA	39	0.411	6.196	1.455	1.00	0.00
ATOM	598	HA	ALA	39	0.798	8.862	0.243	1.00	0.00
ATOM	599	1HB	ALA	39	-0.427	7.830	-1.780	1.00	0.00
ATOM	600	2HB	ALA	39	0.070	6.281	-1.098	1.00	0.00
ATOM	601	3HB	ALA	39	1.286	7.473	-1.562	1.00	0.00
ATOM	602	N	ASP	40	-1.465	8.014	1.930	1.00	0.00
ATOM	603	CA	ASP	40	-2.791	8.216	2.471	1.00	0.00
ATOM	608	C	ASP	40	-2.739	9.173	3.649	1.00	0.00
ATOM	609	O	ASP	40	-1.691	9.339	4.279	1.00	0.00
ATOM	604	CB	ASP	40	-3.389	6.885	2.931	1.00	0.00
ATOM	605	CG	ASP	40	-3.367	5.807	1.862	1.00	0.00
ATOM	606	OD1	ASP	40	-2.262	5.425	1.420	1.00	0.00
ATOM	607	OD2	ASP	40	-4.448	5.321	1.493	1.00	0.00
ATOM	610	H	ASP	40	-0.758	7.709	2.521	1.00	0.00
ATOM	611	HA	ASP	40	-3.413	8.636	1.695	1.00	0.00
ATOM	612	1HB	ASP	40	-4.412	7.051	3.228	1.00	0.00
ATOM	613	2HB	ASP	40	-2.830	6.525	3.783	1.00	0.00
ATOM	614	N	PRO	41	-3.879	9.788	3.986	1.00	0.00
ATOM	615	CA	PRO	41	-3.987	10.716	5.105	1.00	0.00
ATOM	619	C	PRO	41	-4.144	9.978	6.434	1.00	0.00
ATOM	620	O	PRO	41	-5.006	10.304	7.249	1.00	0.00
ATOM	616	CB	PRO	41	-5.242	11.520	4.768	1.00	0.00
ATOM	617	CG	PRO	41	-6.087	10.609	3.935	1.00	0.00
ATOM	618	CD	PRO	41	-5.168	9.590	3.306	1.00	0.00
ATOM	621	HA	PRO	41	-3.132	11.375	5.158	1.00	0.00
ATOM	622	1HB	PRO	41	-4.962	12.407	4.218	1.00	0.00
ATOM	623	2HB	PRO	41	-5.746	11.802	5.681	1.00	0.00
ATOM	624	1HG	PRO	41	-6.589	11.180	3.167	1.00	0.00
ATOM	625	2HG	PRO	41	-6.814	10.114	4.562	1.00	0.00
ATOM	626	1HD	PRO	41	-5.070	9.764	2.247	1.00	0.00
ATOM	627	2HD	PRO	41	-5.540	8.592	3.486	1.00	0.00
ATOM	628	N	LEU	42	-3.291	8.976	6.625	1.00	0.00
ATOM	629	CA	LEU	42	-3.283	8.154	7.832	1.00	0.00
ATOM	634	C	LEU	42	-2.154	7.137	7.747	1.00	0.00
ATOM	635	O	LEU	42	-1.579	6.747	8.760	1.00	0.00
ATOM	630	CB	LEU	42	-4.625	7.423	8.042	1.00	0.00
ATOM	631	CG	LEU	42	-5.459	7.169	6.778	1.00	0.00
ATOM	632	CD1	LEU	42	-5.149	5.803	6.186	1.00	0.00
ATOM	633	CD2	LEU	42	-6.943	7.289	7.088	1.00	0.00
ATOM	636	H	LEU	42	-2.634	8.789	5.923	1.00	0.00
ATOM	637	HA	LEU	42	-3.094	8.809	8.672	1.00	0.00



ATOM	638	1HB	LEU	42	-5.222	8.008	8.726	1.00	0.00
ATOM	639	2HB	LEU	42	-4.417	6.469	8.504	1.00	0.00
ATOM	640	HG	LEU	42	-5.211	7.916	6.037	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.150	5.808	5.775	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.859	5.581	5.403	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.217	5.051	6.958	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.134	8.236	7.573	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.241	6.483	7.742	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.508	7.235	6.169	1.00	0.00
ATOM	647	N	HIS	43	-1.841	6.720	6.523	1.00	0.00
ATOM	648	CA	HIS	43	-0.774	5.749	6.272	1.00	0.00
ATOM	655	C	HIS	43	0.551	6.247	6.833	1.00	0.00
ATOM	656	O	HIS	43	1.136	5.628	7.722	1.00	0.00
ATOM	649	CB	HIS	43	-0.613	5.536	4.770	1.00	0.00
ATOM	650	CG	HIS	43	-1.319	4.331	4.215	1.00	0.00
ATOM	651	ND1	HIS	43	-0.808	3.568	3.187	1.00	0.00
ATOM	652	CD2	HIS	43	-2.533	3.804	4.501	1.00	0.00
ATOM	653	CE1	HIS	43	-1.678	2.633	2.862	1.00	0.00
ATOM	654	NE2	HIS	43	-2.734	2.751	3.646	1.00	0.00
ATOM	657	H	HIS	43	-2.344	7.074	5.763	1.00	0.00
ATOM	658	HA	HIS	43	-1.035	4.820	6.751	1.00	0.00
ATOM	659	1HB	HIS	43	0.435	5.444	4.550	1.00	0.00
ATOM	660	2HB	HIS	43	-0.999	6.404	4.258	1.00	0.00
ATOM	661	HD1	HIS	43	0.070	3.687	2.759	1.00	0.00
ATOM	662	HD2	HIS	43	-3.220	4.159	5.256	1.00	0.00
ATOM	663	HE1	HIS	43	-1.550	1.898	2.083	1.00	0.00
ATOM	664	HE2	HIS	43	-3.427	2.069	3.751	1.00	0.00
ATOM	665	N	GLN	44	1.011	7.378	6.299	1.00	0.00
ATOM	666	CA	GLN	44	2.266	7.993	6.726	1.00	0.00
ATOM	672	C	GLN	44	2.260	8.251	8.225	1.00	0.00
ATOM	673	O	GLN	44	3.298	8.211	8.879	1.00	0.00
ATOM	667	CB	GLN	44	2.481	9.315	5.974	1.00	0.00
ATOM	668	CG	GLN	44	3.851	9.940	6.195	1.00	0.00
ATOM	669	CD	GLN	44	3.923	11.380	5.713	1.00	0.00
ATOM	670	OE1	GLN	44	2.978	12.153	5.883	1.00	0.00
ATOM	671	NE2	GLN	44	5.043	11.748	5.106	1.00	0.00
ATOM	674	H	GLN	44	0.489	7.813	5.593	1.00	0.00
ATOM	675	HA	GLN	44	3.072	7.315	6.488	1.00	0.00
ATOM	676	1HB	GLN	44	1.731	10.024	6.294	1.00	0.00
ATOM	677	2HB	GLN	44	2.362	9.135	4.916	1.00	0.00
ATOM	678	1HG	GLN	44	4.588	9.360	5.660	1.00	0.00
ATOM	679	2HG	GLN	44	4.076	9.920	7.252	1.00	0.00
ATOM	680	1HE2	GLN	44	5.752	11.083	5.005	1.00	0.00
ATOM	681	2HE2	GLN	44	5.118	12.679	4.782	1.00	0.00
ATOM	682	N	ALA	45	1.075	8.507	8.753	1.00	0.00
ATOM	683	CA	ALA	45	0.913	8.778	10.170	1.00	0.00
ATOM	685	C	ALA	45	1.133	7.532	11.018	1.00	0.00
ATOM	686	O	ALA	45	1.900	7.554	11.980	1.00	0.00
ATOM	684	CB	ALA	45	-0.466	9.352	10.432	1.00	0.00
ATOM	687	H	ALA	45	0.284	8.511	8.169	1.00	0.00
ATOM	688	HA	ALA	45	1.642	9.524	10.450	1.00	0.00
ATOM	689	1HB	ALA	45	-0.372	10.284	10.969	1.00	0.00
ATOM	690	2HB	ALA	45	-1.041	8.653	11.022	1.00	0.00
ATOM	691	3HB	ALA	45	-0.968	9.527	9.492	1.00	0.00
ATOM	692	N	MET	46	0.447	6.449	10.673	1.00	0.00
ATOM	693	CA	MET	46	0.562	5.210	11.434	1.00	0.00
ATOM	698	C	MET	46	1.940	4.584	11.288	1.00	0.00
ATOM	699	O	MET	46	2.510	4.085	12.262	1.00	0.00
ATOM	694	CB	MET	46	-0.506	4.213	10.991	1.00	0.00
ATOM	695	CG	MET	46	-0.820	3.172	12.047	1.00	0.00
ATOM	696	SD	MET	46	-2.394	2.360	11.766	1.00	0.00
ATOM	697	CE	MET	46	-3.476	3.494	12.617	1.00	0.00
ATOM	700	H	MET	46	-0.164	6.485	9.895	1.00	0.00
ATOM	701	HA	MET	46	0.402	5.451	12.474	1.00	0.00
ATOM	702	1HB	MET	46	-0.162	3.703	10.103	1.00	0.00
ATOM	703	2HB	MET	46	-1.413	4.750	10.760	1.00	0.00
ATOM	704	1HG	MET	46	-0.850	3.656	13.012	1.00	0.00
ATOM	705	2HG	MET	46	-0.045	2.429	12.044	1.00	0.00
ATOM	706	1HE	MET	46	-3.255	4.506	12.308	1.00	0.00
ATOM	707	2HE	MET	46	-3.324	3.403	13.682	1.00	0.00
ATOM	708	3HE	MET	46	-4.503	3.261	12.378	1.00	0.00
ATOM	709	N	ARG	47	2.461	4.598	10.072	1.00	0.00
ATOM	710	CA	ARG	47	3.763	4.012	9.791	1.00	0.00



ATOM	718	C	ARG	47	4.879	4.703	10.572	1.00	0.00
ATOM	719	O	ARG	47	5.833	4.052	11.003	1.00	0.00
ATOM	711	CB	ARG	47	4.056	4.073	8.290	1.00	0.00
ATOM	712	CG	ARG	47	3.681	2.799	7.550	1.00	0.00
ATOM	713	CD	ARG	47	4.666	2.485	6.434	1.00	0.00
ATOM	714	NE	ARG	47	6.055	2.488	6.902	1.00	0.00
ATOM	715	CZ	ARG	47	7.116	2.459	6.093	1.00	0.00
ATOM	716	NH1	ARG	47	6.956	2.429	4.773	1.00	0.00
ATOM	717	NH2	ARG	47	8.339	2.460	6.603	1.00	0.00
ATOM	720	H	ARG	47	1.946	4.999	9.336	1.00	0.00
ATOM	721	HA	ARG	47	3.726	2.977	10.093	1.00	0.00
ATOM	722	1HB	ARG	47	5.113	4.248	8.146	1.00	0.00
ATOM	723	2HB	ARG	47	3.501	4.892	7.859	1.00	0.00
ATOM	724	1HG	ARG	47	2.696	2.922	7.124	1.00	0.00
ATOM	725	2HG	ARG	47	3.671	1.978	8.250	1.00	0.00
ATOM	726	1HD	ARG	47	4.557	3.226	5.655	1.00	0.00
ATOM	727	2HD	ARG	47	4.436	1.509	6.033	1.00	0.00
ATOM	728	HE	ARG	47	6.202	2.513	7.873	1.00	0.00
ATOM	729	1HH1	ARG	47	6.037	2.430	4.377	1.00	0.00
ATOM	730	2HH1	ARG	47	7.758	2.399	4.170	1.00	0.00
ATOM	731	1HH2	ARG	47	8.476	2.481	7.606	1.00	0.00
ATOM	732	2HH2	ARG	47	9.144	2.451	5.993	1.00	0.00
ATOM	733	N	ALA	48	4.757	6.011	10.766	1.00	0.00
ATOM	734	CA	ALA	48	5.772	6.757	11.501	1.00	0.00
ATOM	736	C	ALA	48	5.594	6.571	12.994	1.00	0.00
ATOM	737	O	ALA	48	6.568	6.393	13.725	1.00	0.00
ATOM	735	CB	ALA	48	5.729	8.230	11.133	1.00	0.00
ATOM	738	H	ALA	48	3.968	6.485	10.417	1.00	0.00
ATOM	739	HA	ALA	48	6.742	6.365	11.219	1.00	0.00
ATOM	740	1HB	ALA	48	6.308	8.796	11.848	1.00	0.00
ATOM	741	2HB	ALA	48	4.706	8.577	11.143	1.00	0.00
ATOM	742	3HB	ALA	48	6.146	8.367	10.146	1.00	0.00
ATOM	743	N	ALA	49	4.344	6.595	13.440	1.00	0.00
ATOM	744	CA	ALA	49	4.041	6.410	14.847	1.00	0.00
ATOM	746	C	ALA	49	4.556	5.057	15.305	1.00	0.00
ATOM	747	O	ALA	49	5.322	4.964	16.266	1.00	0.00
ATOM	745	CB	ALA	49	2.547	6.521	15.085	1.00	0.00
ATOM	748	H	ALA	49	3.606	6.730	12.804	1.00	0.00
ATOM	749	HA	ALA	49	4.537	7.188	15.408	1.00	0.00
ATOM	750	1HB	ALA	49	2.084	5.560	14.914	1.00	0.00
ATOM	751	2HB	ALA	49	2.127	7.248	14.407	1.00	0.00
ATOM	752	3HB	ALA	49	2.367	6.831	16.103	1.00	0.00
ATOM	753	N	GLY	50	4.133	4.018	14.590	1.00	0.00
ATOM	754	CA	GLY	50	4.554	2.670	14.900	1.00	0.00
ATOM	755	C	GLY	50	6.060	2.540	14.985	1.00	0.00
ATOM	756	O	GLY	50	6.571	1.963	15.930	1.00	0.00
ATOM	757	H	GLY	50	3.524	4.174	13.834	1.00	0.00
ATOM	758	1HA	GLY	50	4.189	2.005	14.131	1.00	0.00
ATOM	759	2HA	GLY	50	4.124	2.380	15.846	1.00	0.00
ATOM	760	N	ASP	51	6.764	3.087	14.000	1.00	0.00
ATOM	761	CA	ASP	51	8.224	3.034	13.959	1.00	0.00
ATOM	766	C	ASP	51	8.852	3.698	15.192	1.00	0.00
ATOM	767	O	ASP	51	9.753	3.135	15.817	1.00	0.00
ATOM	762	CB	ASP	51	8.732	3.706	12.683	1.00	0.00
ATOM	763	CG	ASP	51	10.065	3.148	12.228	1.00	0.00
ATOM	764	OD1	ASP	51	10.069	2.117	11.518	1.00	0.00
ATOM	765	OD2	ASP	51	11.108	3.741	12.569	1.00	0.00
ATOM	768	H	ASP	51	6.290	3.538	13.273	1.00	0.00
ATOM	769	HA	ASP	51	8.516	1.994	13.943	1.00	0.00
ATOM	770	1HB	ASP	51	8.844	4.768	12.856	1.00	0.00
ATOM	771	2HB	ASP	51	8.013	3.550	11.894	1.00	0.00
ATOM	772	N	GLU	52	8.370	4.889	15.540	1.00	0.00
ATOM	773	CA	GLU	52	8.890	5.615	16.698	1.00	0.00
ATOM	779	C	GLU	52	8.636	4.832	17.987	1.00	0.00
ATOM	780	O	GLU	52	9.526	4.696	18.830	1.00	0.00
ATOM	774	CB	GLU	52	8.270	7.024	16.767	1.00	0.00
ATOM	775	CG	GLU	52	7.665	7.393	18.118	1.00	0.00
ATOM	776	CD	GLU	52	8.114	8.753	18.619	1.00	0.00
ATOM	777	OE1	GLU	52	7.491	9.768	18.233	1.00	0.00
ATOM	778	OE2	GLU	52	9.076	8.808	19.411	1.00	0.00
ATOM	781	H	GLU	52	7.649	5.290	15.006	1.00	0.00
ATOM	782	HA	GLU	52	9.958	5.712	16.568	1.00	0.00
ATOM	783	1HB	GLU	52	7.491	7.093	16.022	1.00	0.00



ATOM	784	2HB	GLU	52	9.035	7.749	16.537	1.00	0.00
ATOM	785	1HG	GLU	52	7.959	6.646	18.843	1.00	0.00
ATOM	786	2HG	GLU	52	6.590	7.398	18.027	1.00	0.00
ATOM	787	N	PHE	53	7.425	4.309	18.138	1.00	0.00
ATOM	788	CA	PHE	53	7.082	3.547	19.327	1.00	0.00
ATOM	796	C	PHE	53	7.758	2.187	19.320	1.00	0.00
ATOM	797	O	PHE	53	8.121	1.678	20.365	1.00	0.00
ATOM	789	CB	PHE	53	5.571	3.388	19.459	1.00	0.00
ATOM	790	CG	PHE	53	5.007	4.074	20.672	1.00	0.00
ATOM	791	CD1	PHE	53	4.941	5.458	20.732	1.00	0.00
ATOM	792	CD2	PHE	53	4.548	3.337	21.752	1.00	0.00
ATOM	793	CE1	PHE	53	4.429	6.092	21.848	1.00	0.00
ATOM	794	CE2	PHE	53	4.034	3.967	22.869	1.00	0.00
ATOM	795	CZ	PHE	53	3.974	5.347	22.918	1.00	0.00
ATOM	798	H	PHE	53	6.748	4.440	17.433	1.00	0.00
ATOM	799	HA	PHE	53	7.446	4.102	20.180	1.00	0.00
ATOM	800	1HB	PHE	53	5.331	2.337	19.527	1.00	0.00
ATOM	801	2HB	PHE	53	5.095	3.807	18.586	1.00	0.00
ATOM	802	HD1	PHE	53	5.295	6.042	19.896	1.00	0.00
ATOM	803	HD2	PHE	53	4.593	2.259	21.714	1.00	0.00
ATOM	804	HE1	PHE	53	4.384	7.172	21.882	1.00	0.00
ATOM	805	HE2	PHE	53	3.679	3.382	23.705	1.00	0.00
ATOM	806	HZ	PHE	53	3.574	5.841	23.790	1.00	0.00
ATOM	807	N	GLU	54	7.941	1.610	18.141	1.00	0.00
ATOM	808	CA	GLU	54	8.593	0.309	18.014	1.00	0.00
ATOM	814	C	GLU	54	10.051	0.416	18.467	1.00	0.00
ATOM	815	O	GLU	54	10.653	-0.554	18.929	1.00	0.00
ATOM	809	CB	GLU	54	8.497	-0.186	16.562	1.00	0.00
ATOM	810	CG	GLU	54	9.188	-1.518	16.303	1.00	0.00
ATOM	811	CD	GLU	54	8.943	-2.044	14.900	1.00	0.00
ATOM	812	OE1	GLU	54	7.933	-2.750	14.682	1.00	0.00
ATOM	813	OE2	GLU	54	9.762	-1.765	13.999	1.00	0.00
ATOM	816	H	GLU	54	7.633	2.070	17.327	1.00	0.00
ATOM	817	HA	GLU	54	8.078	-0.386	18.662	1.00	0.00
ATOM	818	1HB	GLU	54	8.930	0.561	15.907	1.00	0.00
ATOM	819	2HB	GLU	54	7.453	-0.300	16.310	1.00	0.00
ATOM	820	1HG	GLU	54	8.819	-2.244	17.013	1.00	0.00
ATOM	821	2HG	GLU	54	10.252	-1.390	16.441	1.00	0.00
ATOM	822	N	THR	55	10.601	1.617	18.346	1.00	0.00
ATOM	823	CA	THR	55	11.972	1.883	18.744	1.00	0.00
ATOM	827	C	THR	55	12.063	2.262	20.231	1.00	0.00
ATOM	828	O	THR	55	13.079	2.020	20.884	1.00	0.00
ATOM	824	CB	THR	55	12.569	3.011	17.875	1.00	0.00
ATOM	825	OG1	THR	55	12.352	2.721	16.485	1.00	0.00
ATOM	826	CG2	THR	55	14.060	3.178	18.132	1.00	0.00
ATOM	829	H	THR	55	10.061	2.349	17.978	1.00	0.00
ATOM	830	HA	THR	55	12.548	0.984	18.577	1.00	0.00
ATOM	831	HB	THR	55	12.067	3.937	18.121	1.00	0.00
ATOM	832	HG1	THR	55	11.400	2.728	16.299	1.00	0.00
ATOM	833	1HG2	THR	55	14.606	2.416	17.596	1.00	0.00
ATOM	834	2HG2	THR	55	14.255	3.086	19.189	1.00	0.00
ATOM	835	3HG2	THR	55	14.376	4.154	17.790	1.00	0.00
ATOM	836	N	ARG	56	11.002	2.865	20.761	1.00	0.00
ATOM	837	CA	ARG	56	10.981	3.285	22.163	1.00	0.00
ATOM	845	C	ARG	56	10.400	2.196	23.072	1.00	0.00
ATOM	846	O	ARG	56	10.963	1.883	24.124	1.00	0.00
ATOM	838	CB	ARG	56	10.173	4.580	22.308	1.00	0.00
ATOM	839	CG	ARG	56	10.904	5.808	21.778	1.00	0.00
ATOM	840	CD	ARG	56	10.037	7.060	21.823	1.00	0.00
ATOM	841	NE	ARG	56	10.492	8.011	22.838	1.00	0.00
ATOM	842	CZ	ARG	56	10.255	9.324	22.788	1.00	0.00
ATOM	843	NH1	ARG	56	9.654	9.862	21.732	1.00	0.00
ATOM	844	NH2	ARG	56	10.649	10.112	23.777	1.00	0.00
ATOM	847	H	ARG	56	10.222	3.043	20.193	1.00	0.00
ATOM	848	HA	ARG	56	12.000	3.475	22.463	1.00	0.00
ATOM	849	1HB	ARG	56	9.954	4.740	23.353	1.00	0.00
ATOM	850	2HB	ARG	56	9.245	4.476	21.764	1.00	0.00
ATOM	851	1HG	ARG	56	11.197	5.622	20.754	1.00	0.00
ATOM	852	2HG	ARG	56	11.785	5.975	22.379	1.00	0.00
ATOM	853	1HD	ARG	56	9.017	6.778	22.045	1.00	0.00
ATOM	854	2HD	ARG	56	10.070	7.540	20.856	1.00	0.00
ATOM	855	HE	ARG	56	10.989	7.647	23.606	1.00	0.00
ATOM	856	1HH1	ARG	56	9.370	9.283	20.946	1.00	0.00



ATOM	857	2HH1	ARG	56	9.474	10.848	21.706	1.00	0.00
ATOM	858	1HH2	ARG	56	11.134	9.735	24.569	1.00	0.00
ATOM	859	2HH2	ARG	56	10.449	11.108	23.742	1.00	0.00
ATOM	860	N	PHE	57	9.282	1.628	22.652	1.00	0.00
ATOM	861	CA	PHE	57	8.595	0.575	23.391	1.00	0.00
ATOM	869	C	PHE	57	9.194	-0.787	23.048	1.00	0.00
ATOM	870	O	PHE	57	8.720	-1.474	22.145	1.00	0.00
ATOM	862	CB	PHE	57	7.103	0.598	23.033	1.00	0.00
ATOM	863	CG	PHE	57	6.169	0.202	24.143	1.00	0.00
ATOM	864	CD1	PHE	57	6.568	0.231	25.469	1.00	0.00
ATOM	865	CD2	PHE	57	4.873	-0.193	23.846	1.00	0.00
ATOM	866	CE1	PHE	57	5.691	-0.126	26.479	1.00	0.00
ATOM	867	CE2	PHE	57	3.994	-0.553	24.848	1.00	0.00
ATOM	868	CZ	PHE	57	4.401	-0.519	26.165	1.00	0.00
ATOM	871	H	PHE	57	8.896	1.923	21.798	1.00	0.00
ATOM	872	HA	PHE	57	8.714	0.764	24.447	1.00	0.00
ATOM	873	1HB	PHE	57	6.935	-0.074	22.204	1.00	0.00
ATOM	874	2HB	PHE	57	6.836	1.599	22.727	1.00	0.00
ATOM	875	HD1	PHE	57	7.574	0.538	25.714	1.00	0.00
ATOM	876	HD2	PHE	57	4.552	-0.220	22.816	1.00	0.00
ATOM	877	HE1	PHE	57	6.013	-0.101	27.509	1.00	0.00
ATOM	878	HE2	PHE	57	2.988	-0.860	24.600	1.00	0.00
ATOM	879	HZ	PHE	57	3.712	-0.796	26.950	1.00	0.00
ATOM	880	N	ARG	58	10.246	-1.163	23.763	1.00	0.00
ATOM	881	CA	ARG	58	10.921	-2.437	23.524	1.00	0.00
ATOM	889	C	ARG	58	10.041	-3.621	23.921	1.00	0.00
ATOM	890	O	ARG	58	10.212	-4.731	23.418	1.00	0.00
ATOM	882	CB	ARG	58	12.243	-2.488	24.287	1.00	0.00
ATOM	883	CG	ARG	58	13.462	-2.401	23.384	1.00	0.00
ATOM	884	CD	ARG	58	14.670	-1.862	24.130	1.00	0.00
ATOM	885	NE	ARG	58	15.352	-2.905	24.893	1.00	0.00
ATOM	886	CZ	ARG	58	16.081	-2.676	25.985	1.00	0.00
ATOM	887	NH1	ARG	58	16.267	-1.434	26.418	1.00	0.00
ATOM	888	NH2	ARG	58	16.649	-3.690	26.629	1.00	0.00
ATOM	891	H	ARG	58	10.587	-0.563	24.458	1.00	0.00
ATOM	892	HA	ARG	58	11.128	-2.503	22.466	1.00	0.00
ATOM	893	1HB	ARG	58	12.294	-3.416	24.836	1.00	0.00
ATOM	894	2HB	ARG	58	12.277	-1.663	24.984	1.00	0.00
ATOM	895	1HG	ARG	58	13.240	-1.744	22.556	1.00	0.00
ATOM	896	2HG	ARG	58	13.695	-3.388	23.012	1.00	0.00
ATOM	897	1HD	ARG	58	14.342	-1.089	24.810	1.00	0.00
ATOM	898	2HD	ARG	58	15.361	-1.442	23.415	1.00	0.00
ATOM	899	HE	ARG	58	15.252	-3.838	24.570	1.00	0.00
ATOM	900	1HH1	ARG	58	15.862	-0.656	25.919	1.00	0.00
ATOM	901	2HH1	ARG	58	16.815	-1.260	27.237	1.00	0.00
ATOM	902	1HH2	ARG	58	16.535	-4.630	26.289	1.00	0.00
ATOM	903	2HH2	ARG	58	17.192	-3.524	27.461	1.00	0.00
ATOM	904	N	ARG	59	9.092	-3.379	24.814	1.00	0.00
ATOM	905	CA	ARG	59	8.181	-4.426	25.257	1.00	0.00
ATOM	913	C	ARG	59	6.997	-4.524	24.304	1.00	0.00
ATOM	914	O	ARG	59	5.866	-4.210	24.666	1.00	0.00
ATOM	906	CB	ARG	59	7.696	-4.149	26.682	1.00	0.00
ATOM	907	CG	ARG	59	7.535	-5.405	27.522	1.00	0.00
ATOM	908	CD	ARG	59	6.791	-5.118	28.814	1.00	0.00
ATOM	909	NE	ARG	59	7.704	-4.909	29.940	1.00	0.00
ATOM	910	CZ	ARG	59	7.406	-5.211	31.204	1.00	0.00
ATOM	911	NH1	ARG	59	6.225	-5.740	31.503	1.00	0.00
ATOM	912	NH2	ARG	59	8.295	-4.998	32.165	1.00	0.00
ATOM	915	H	ARG	59	8.992	-2.474	25.171	1.00	0.00
ATOM	916	HA	ARG	59	8.719	-5.363	25.243	1.00	0.00
ATOM	917	1HB	ARG	59	6.739	-3.648	26.634	1.00	0.00
ATOM	918	2HB	ARG	59	8.407	-3.500	27.173	1.00	0.00
ATOM	919	1HG	ARG	59	8.515	-5.796	27.760	1.00	0.00
ATOM	920	2HG	ARG	59	6.981	-6.138	26.955	1.00	0.00
ATOM	921	1HD	ARG	59	6.146	-5.956	29.037	1.00	0.00
ATOM	922	2HD	ARG	59	6.193	-4.230	28.679	1.00	0.00
ATOM	923	HE	ARG	59	8.586	-4.528	29.740	1.00	0.00
ATOM	924	1HH1	ARG	59	5.556	-5.918	30.779	1.00	0.00
ATOM	925	2HH1	ARG	59	5.997	-5.969	32.460	1.00	0.00
ATOM	926	1HH2	ARG	59	9.199	-4.610	31.944	1.00	0.00
ATOM	927	2HH2	ARG	59	8.078	-5.230	33.123	1.00	0.00
ATOM	928	N	THR	60	7.278	-4.928	23.076	1.00	0.00
ATOM	929	CA	THR	60	6.249	-5.042	22.054	1.00	0.00



ATOM	933	C	THR	60	6.148	-6.468	21.518	1.00	0.00
ATOM	934	O	THR	60	5.059	-6.960	21.225	1.00	0.00
ATOM	930	CB	THR	60	6.543	-4.086	20.889	1.00	0.00
ATOM	931	OG1	THR	60	7.950	-3.803	20.847	1.00	0.00
ATOM	932	CG2	THR	60	5.763	-2.789	21.044	1.00	0.00
ATOM	935	H	THR	60	8.207	-5.132	22.841	1.00	0.00
ATOM	936	HA	THR	60	5.305	-4.762	22.496	1.00	0.00
ATOM	937	HB	THR	60	6.249	-4.561	19.965	1.00	0.00
ATOM	938	HG1	THR	60	8.104	-2.892	21.132	1.00	0.00
ATOM	939	1HG2	THR	60	5.081	-2.677	20.214	1.00	0.00
ATOM	940	2HG2	THR	60	6.449	-1.956	21.061	1.00	0.00
ATOM	941	3HG2	THR	60	5.204	-2.813	21.968	1.00	0.00
ATOM	942	N	PHE	61	7.294	-7.122	21.372	1.00	0.00
ATOM	943	CA	PHE	61	7.336	-8.485	20.848	1.00	0.00
ATOM	951	C	PHE	61	7.257	-9.516	21.969	1.00	0.00
ATOM	952	O	PHE	61	7.222	-10.720	21.721	1.00	0.00
ATOM	944	CB	PHE	61	8.620	-8.698	20.038	1.00	0.00
ATOM	945	CG	PHE	61	8.603	-8.034	18.688	1.00	0.00
ATOM	946	CD1	PHE	61	8.761	-6.662	18.569	1.00	0.00
ATOM	947	CD2	PHE	61	8.432	-8.786	17.536	1.00	0.00
ATOM	948	CE1	PHE	61	8.747	-6.053	17.328	1.00	0.00
ATOM	949	CE2	PHE	61	8.417	-8.183	16.293	1.00	0.00
ATOM	950	CZ	PHE	61	8.575	-6.813	16.190	1.00	0.00
ATOM	953	H	PHE	61	8.132	-6.672	21.605	1.00	0.00
ATOM	954	HA	PHE	61	6.486	-8.614	20.195	1.00	0.00
ATOM	955	1HB	PHE	61	8.768	-9.757	19.887	1.00	0.00
ATOM	956	2HB	PHE	61	9.456	-8.298	20.592	1.00	0.00
ATOM	957	HD1	PHE	61	8.307	-9.856	17.616	1.00	0.00
ATOM	958	HD2	PHE	61	8.896	-6.065	19.459	1.00	0.00
ATOM	959	HE1	PHE	61	8.283	-8.779	15.404	1.00	0.00
ATOM	960	HE2	PHE	61	8.870	-4.982	17.250	1.00	0.00
ATOM	961	HZ	PHE	61	8.564	-6.341	15.219	1.00	0.00
ATOM	962	N	SER	62	7.236	-9.042	23.205	1.00	0.00
ATOM	963	CA	SER	62	7.174	-9.925	24.360	1.00	0.00
ATOM	966	C	SER	62	5.799	-10.577	24.487	1.00	0.00
ATOM	967	O	SER	62	5.694	-11.788	24.690	1.00	0.00
ATOM	964	CB	SER	62	7.515	-9.132	25.619	1.00	0.00
ATOM	965	OG	SER	62	8.360	-8.034	25.302	1.00	0.00
ATOM	968	H	SER	62	7.270	-8.072	23.349	1.00	0.00
ATOM	969	HA	SER	62	7.909	-10.702	24.223	1.00	0.00
ATOM	970	1HB	SER	62	8.026	-9.774	26.321	1.00	0.00
ATOM	971	2HB	SER	62	6.606	-8.756	26.067	1.00	0.00
ATOM	972	HG	SER	62	9.134	-8.353	24.825	1.00	0.00
ATOM	973	N	ASP	63	4.760	-9.764	24.373	1.00	0.00
ATOM	974	CA	ASP	63	3.376	-10.227	24.480	1.00	0.00
ATOM	979	C	ASP	63	3.056	-11.264	23.426	1.00	0.00
ATOM	980	O	ASP	63	2.256	-12.175	23.654	1.00	0.00
ATOM	975	CB	ASP	63	2.420	-9.042	24.347	1.00	0.00
ATOM	976	CG	ASP	63	2.805	-7.870	25.236	1.00	0.00
ATOM	977	OD1	ASP	63	3.918	-7.329	25.050	1.00	0.00
ATOM	978	OD2	ASP	63	2.001	-7.497	26.115	1.00	0.00
ATOM	981	H	ASP	63	4.920	-8.803	24.224	1.00	0.00
ATOM	982	HA	ASP	63	3.253	-10.681	25.446	1.00	0.00
ATOM	983	1HB	ASP	63	1.427	-9.364	24.612	1.00	0.00
ATOM	984	2HB	ASP	63	2.421	-8.703	23.322	1.00	0.00
ATOM	985	N	LEU	64	3.694	-11.122	22.280	1.00	0.00
ATOM	986	CA	LEU	64	3.514	-12.045	21.166	1.00	0.00
ATOM	991	C	LEU	64	3.839	-13.461	21.619	1.00	0.00
ATOM	992	O	LEU	64	3.103	-14.413	21.345	1.00	0.00
ATOM	987	CB	LEU	64	4.451	-11.667	20.013	1.00	0.00
ATOM	988	CG	LEU	64	3.990	-10.541	19.080	1.00	0.00
ATOM	989	CD1	LEU	64	3.379	-9.379	19.851	1.00	0.00
ATOM	990	CD2	LEU	64	5.166	-10.058	18.249	1.00	0.00
ATOM	993	H	LEU	64	4.317	-10.374	22.183	1.00	0.00
ATOM	994	HA	LEU	64	2.489	-11.994	20.834	1.00	0.00
ATOM	995	1HB	LEU	64	4.607	-12.550	19.412	1.00	0.00
ATOM	996	2HB	LEU	64	5.399	-11.376	20.437	1.00	0.00
ATOM	997	HG	LEU	64	3.239	-10.924	18.405	1.00	0.00
ATOM	998	1HD1	LEU	64	2.994	-8.649	19.154	1.00	0.00
ATOM	999	2HD1	LEU	64	4.136	-8.923	20.472	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.575	-9.743	20.472	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.769	-10.904	17.951	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.765	-9.377	18.834	1.00	0.00



ATOM	1003	3HD2	LEU	64	4.801	-9.550	17.368	1.00	0.00
ATOM	1004	N	ALA	65	4.943	-13.577	22.340	1.00	0.00
ATOM	1005	CA	ALA	65	5.391	-14.857	22.856	1.00	0.00
ATOM	1007	C	ALA	65	4.628	-15.219	24.115	1.00	0.00
ATOM	1008	O	ALA	65	4.221	-16.362	24.290	1.00	0.00
ATOM	1006	CB	ALA	65	6.887	-14.821	23.130	1.00	0.00
ATOM	1009	H	ALA	65	5.464	-12.769	22.542	1.00	0.00
ATOM	1010	HA	ALA	65	5.203	-15.606	22.102	1.00	0.00
ATOM	1011	1HB	ALA	65	7.208	-13.795	23.240	1.00	0.00
ATOM	1012	2HB	ALA	65	7.414	-15.277	22.306	1.00	0.00
ATOM	1013	3HB	ALA	65	7.100	-15.363	24.039	1.00	0.00
ATOM	1014	N	ALA	66	4.432	-14.231	24.980	1.00	0.00
ATOM	1015	CA	ALA	66	3.709	-14.422	26.233	1.00	0.00
ATOM	1017	C	ALA	66	2.366	-15.110	25.998	1.00	0.00
ATOM	1018	O	ALA	66	1.965	-15.994	26.754	1.00	0.00
ATOM	1016	CB	ALA	66	3.499	-13.084	26.913	1.00	0.00
ATOM	1019	H	ALA	66	4.787	-13.334	24.767	1.00	0.00
ATOM	1020	HA	ALA	66	4.313	-15.036	26.884	1.00	0.00
ATOM	1021	1HB	ALA	66	4.022	-12.314	26.365	1.00	0.00
ATOM	1022	2HB	ALA	66	3.880	-13.129	27.923	1.00	0.00
ATOM	1023	3HB	ALA	66	2.444	-12.854	26.937	1.00	0.00
ATOM	1024	N	GLN	67	1.676	-14.695	24.946	1.00	0.00
ATOM	1025	CA	GLN	67	0.374	-15.263	24.614	1.00	0.00
ATOM	1031	C	GLN	67	0.475	-16.612	23.902	1.00	0.00
ATOM	1032	O	GLN	67	-0.174	-17.580	24.298	1.00	0.00
ATOM	1026	CB	GLN	67	-0.410	-14.304	23.726	1.00	0.00
ATOM	1027	CG	GLN	67	-1.189	-13.261	24.495	1.00	0.00
ATOM	1028	CD	GLN	67	-1.865	-12.268	23.577	1.00	0.00
ATOM	1029	OE1	GLN	67	-3.062	-12.364	23.322	1.00	0.00
ATOM	1030	NE2	GLN	67	-1.104	-11.319	23.066	1.00	0.00
ATOM	1033	H	GLN	67	2.049	-13.976	24.383	1.00	0.00
ATOM	1034	HA	GLN	67	-0.170	-15.400	25.535	1.00	0.00
ATOM	1035	1HB	GLN	67	-1.109	-14.873	23.129	1.00	0.00
ATOM	1036	2HB	GLN	67	0.278	-13.795	23.067	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.510	-12.728	25.145	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.944	-13.756	25.087	1.00	0.00
ATOM	1039	1HE2	GLN	67	-0.151	-11.306	23.304	1.00	0.00
ATOM	1040	2HE2	GLN	67	-1.522	-10.662	22.471	1.00	0.00
ATOM	1041	N	LEU	68	1.238	-16.659	22.818	1.00	0.00
ATOM	1042	CA	LEU	68	1.350	-17.878	22.019	1.00	0.00
ATOM	1047	C	LEU	68	2.356	-18.891	22.570	1.00	0.00
ATOM	1048	O	LEU	68	2.711	-19.843	21.878	1.00	0.00
ATOM	1043	CB	LEU	68	1.707	-17.522	20.571	1.00	0.00
ATOM	1044	CG	LEU	68	0.529	-17.077	19.687	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.780	-17.698	20.158	1.00	0.00
ATOM	1046	CD2	LEU	68	0.420	-15.561	19.667	1.00	0.00
ATOM	1049	H	LEU	68	1.702	-15.844	22.518	1.00	0.00
ATOM	1050	HA	LEU	68	0.378	-18.347	22.019	1.00	0.00
ATOM	1051	1HB	LEU	68	2.161	-18.388	20.113	1.00	0.00
ATOM	1052	2HB	LEU	68	2.435	-16.724	20.589	1.00	0.00
ATOM	1053	HG	LEU	68	0.707	-17.411	18.675	1.00	0.00
ATOM	1054	1HD1	LEU	68	-1.593	-17.324	19.552	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.951	-17.435	21.192	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.724	-18.772	20.063	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.212	-15.201	20.665	1.00	0.00
ATOM	1058	2HD2	LEU	68	-0.383	-15.268	19.006	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.349	-15.136	19.317	1.00	0.00
ATOM	1060	N	HIS	69	2.809	-18.709	23.802	1.00	0.00
ATOM	1061	CA	HIS	69	3.762	-19.649	24.388	1.00	0.00
ATOM	1068	C	HIS	69	3.040	-20.898	24.890	1.00	0.00
ATOM	1069	O	HIS	69	3.623	-21.976	24.973	1.00	0.00
ATOM	1062	CB	HIS	69	4.581	-18.980	25.514	1.00	0.00
ATOM	1063	CG	HIS	69	4.087	-19.229	26.916	1.00	0.00
ATOM	1064	ND1	HIS	69	4.617	-20.201	27.736	1.00	0.00
ATOM	1065	CD2	HIS	69	3.115	-18.623	27.641	1.00	0.00
ATOM	1066	CE1	HIS	69	3.993	-20.184	28.898	1.00	0.00
ATOM	1067	NE2	HIS	69	3.078	-19.235	28.869	1.00	0.00
ATOM	1070	H	HIS	69	2.502	-17.936	24.323	1.00	0.00
ATOM	1071	HA	HIS	69	4.439	-19.946	23.601	1.00	0.00
ATOM	1072	1HB	HIS	69	4.579	-17.911	25.350	1.00	0.00
ATOM	1073	2HB	HIS	69	5.598	-19.336	25.461	1.00	0.00
ATOM	1074	HD1	HIS	69	5.360	-20.813	27.500	1.00	0.00
ATOM	1075	HD2	HIS	69	2.486	-17.806	27.313	1.00	0.00



ATOM	1076	HE1	HIS	69	4.197	-20.837	29.733	1.00	0.00
ATOM	1077	HE2	HIS	69	2.580	-18.906	29.659	1.00	0.00
ATOM	1078	N	VAL	70	1.765	-20.743	25.219	1.00	0.00
ATOM	1079	CA	VAL	70	0.963	-21.856	25.707	1.00	0.00
ATOM	1083	C	VAL	70	0.243	-22.554	24.562	1.00	0.00
ATOM	1084	O	VAL	70	0.588	-23.675	24.188	1.00	0.00
ATOM	1080	CB	VAL	70	-0.076	-21.410	26.762	1.00	0.00
ATOM	1081	CG1	VAL	70	0.331	-21.893	28.144	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.261	-19.898	26.757	1.00	0.00
ATOM	1085	H	VAL	70	1.354	-19.859	25.124	1.00	0.00
ATOM	1086	HA	VAL	70	1.634	-22.562	26.174	1.00	0.00
ATOM	1087	HB	VAL	70	-1.025	-21.867	26.514	1.00	0.00
ATOM	1088	1HG1	VAL	70	1.270	-21.439	28.422	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.440	-22.967	28.134	1.00	0.00
ATOM	1090	3HG1	VAL	70	-0.427	-21.616	28.861	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.918	-19.613	27.566	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.693	-19.591	25.817	1.00	0.00
ATOM	1093	3HG2	VAL	70	0.699	-19.419	26.886	1.00	0.00
ATOM	1094	N	THR	71	-0.766	-21.887	24.017	1.00	0.00
ATOM	1095	CA	THR	71	-1.555	-22.433	22.922	1.00	0.00
ATOM	1099	C	THR	71	-2.287	-21.313	22.183	1.00	0.00
ATOM	1100	O	THR	71	-2.606	-20.276	22.777	1.00	0.00
ATOM	1096	CB	THR	71	-2.600	-23.448	23.439	1.00	0.00
ATOM	1097	OG1	THR	71	-2.693	-23.377	24.871	1.00	0.00
ATOM	1098	CG2	THR	71	-2.237	-24.866	23.021	1.00	0.00
ATOM	1101	H	THR	71	-0.994	-21.001	24.363	1.00	0.00
ATOM	1102	HA	THR	71	-0.890	-22.938	22.238	1.00	0.00
ATOM	1103	HB	THR	71	-3.561	-23.199	23.013	1.00	0.00
ATOM	1104	HG1	THR	71	-1.920	-23.797	25.260	1.00	0.00
ATOM	1105	1HG2	THR	71	-3.021	-25.543	23.327	1.00	0.00
ATOM	1106	2HG2	THR	71	-1.308	-25.154	23.491	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.125	-24.907	21.947	1.00	0.00
ATOM	1108	N	PRO	72	-2.563	-21.501	20.883	1.00	0.00
ATOM	1109	CA	PRO	72	-3.265	-20.516	20.068	1.00	0.00
ATOM	1113	C	PRO	72	-4.777	-20.586	20.279	1.00	0.00
ATOM	1114	O	PRO	72	-5.263	-21.379	21.086	1.00	0.00
ATOM	1110	CB	PRO	72	-2.908	-20.910	18.624	1.00	0.00
ATOM	1111	CG	PRO	72	-2.027	-22.118	18.721	1.00	0.00
ATOM	1112	CD	PRO	72	-2.221	-22.688	20.097	1.00	0.00
ATOM	1115	HA	PRO	72	-2.919	-19.513	20.270	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.395	-20.089	18.148	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.816	-21.131	18.081	1.00	0.00
ATOM	1118	1HG	PRO	72	-0.996	-21.831	18.577	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.320	-22.843	17.975	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.308	-23.138	20.454	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.030	-23.404	20.102	1.00	0.00
ATOM	1122	N	GLY	73	-5.520	-19.765	19.546	1.00	0.00
ATOM	1123	CA	GLY	73	-6.965	-19.771	19.671	1.00	0.00
ATOM	1124	C	GLY	73	-7.471	-18.817	20.736	1.00	0.00
ATOM	1125	O	GLY	73	-8.061	-17.783	20.418	1.00	0.00
ATOM	1126	H	GLY	73	-5.085	-19.156	18.910	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.288	-20.771	19.920	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.397	-19.491	18.722	1.00	0.00
ATOM	1129	N	SER	74	-7.243	-19.165	21.998	1.00	0.00
ATOM	1130	CA	SER	74	-7.681	-18.351	23.130	1.00	0.00
ATOM	1133	C	SER	74	-6.829	-17.090	23.294	1.00	0.00
ATOM	1134	O	SER	74	-6.424	-16.733	24.400	1.00	0.00
ATOM	1131	CB	SER	74	-7.622	-19.194	24.401	1.00	0.00
ATOM	1132	OG	SER	74	-7.081	-20.478	24.125	1.00	0.00
ATOM	1135	H	SER	74	-6.769	-20.008	22.183	1.00	0.00
ATOM	1136	HA	SER	74	-8.704	-18.056	22.953	1.00	0.00
ATOM	1137	1HB	SER	74	-8.618	-19.314	24.800	1.00	0.00
ATOM	1138	2HB	SER	74	-6.997	-18.701	25.130	1.00	0.00
ATOM	1139	HG	SER	74	-7.498	-21.133	24.705	1.00	0.00
ATOM	1140	N	ALA	75	-6.569	-16.412	22.189	1.00	0.00
ATOM	1141	CA	ALA	75	-5.779	-15.195	22.211	1.00	0.00
ATOM	1143	C	ALA	75	-6.677	-13.970	22.183	1.00	0.00
ATOM	1144	O	ALA	75	-6.260	-12.879	22.567	1.00	0.00
ATOM	1142	CB	ALA	75	-4.809	-15.174	21.039	1.00	0.00
ATOM	1145	H	ALA	75	-6.925	-16.739	21.334	1.00	0.00
ATOM	1146	HA	ALA	75	-5.205	-15.185	23.121	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.710	-14.164	20.672	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.184	-15.809	20.249	1.00	0.00



ATOM	1149	3HB	ALA	75	-3.845	-15.536	21.365	1.00	0.00
ATOM	1150	N	GLN	76	-7.911	-14.152	21.717	1.00	0.00
ATOM	1151	CA	GLN	76	-8.856	-13.045	21.629	1.00	0.00
ATOM	1157	C	GLN	76	-9.195	-12.485	22.995	1.00	0.00
ATOM	1158	O	GLN	76	-9.290	-11.276	23.152	1.00	0.00
ATOM	1152	CB	GLN	76	-10.127	-13.441	20.864	1.00	0.00
ATOM	1153	CG	GLN	76	-10.678	-14.810	21.206	1.00	0.00
ATOM	1154	CD	GLN	76	-11.935	-15.138	20.423	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.958	-15.505	20.997	1.00	0.00
ATOM	1156	NE2	GLN	76	-11.865	-15.012	19.103	1.00	0.00
ATOM	1159	H	GLN	76	-8.187	-15.043	21.422	1.00	0.00
ATOM	1160	HA	GLN	76	-8.363	-12.263	21.068	1.00	0.00
ATOM	1161	1HB	GLN	76	-9.909	-13.420	19.805	1.00	0.00
ATOM	1162	2HB	GLN	76	-10.894	-12.713	21.074	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.908	-14.830	22.251	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.928	-15.555	20.986	1.00	0.00
ATOM	1165	1HE2	GLN	76	-11.016	-14.721	18.710	1.00	0.00
ATOM	1166	2HE2	GLN	76	-12.667	-15.208	18.572	1.00	0.00
ATOM	1167	N	GLN	77	-9.362	-13.360	23.978	1.00	0.00
ATOM	1168	CA	GLN	77	-9.684	-12.929	25.333	1.00	0.00
ATOM	1174	C	GLN	77	-8.553	-12.098	25.928	1.00	0.00
ATOM	1175	O	GLN	77	-8.792	-11.057	26.530	1.00	0.00
ATOM	1169	CB	GLN	77	-9.977	-14.136	26.223	1.00	0.00
ATOM	1170	CG	GLN	77	-11.153	-14.972	25.747	1.00	0.00
ATOM	1171	CD	GLN	77	-10.725	-16.183	24.939	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.765	-16.127	24.168	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.436	-17.287	25.108	1.00	0.00
ATOM	1176	H	GLN	77	-9.264	-14.321	23.790	1.00	0.00
ATOM	1177	HA	GLN	77	-10.566	-12.309	25.276	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.191	-13.787	27.223	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.102	-14.770	26.252	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.791	-14.354	25.131	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.708	-15.312	26.607	1.00	0.00
ATOM	1182	1HE2	GLN	77	-12.191	-17.263	25.742	1.00	0.00
ATOM	1183	2HE2	GLN	77	-11.186	-18.081	24.593	1.00	0.00
ATOM	1184	N	ARG	78	-7.322	-12.552	25.747	1.00	0.00
ATOM	1185	CA	ARG	78	-6.166	-11.831	26.260	1.00	0.00
ATOM	1193	C	ARG	78	-6.029	-10.489	25.548	1.00	0.00
ATOM	1194	O	ARG	78	-5.691	-9.474	26.163	1.00	0.00
ATOM	1186	CB	ARG	78	-4.892	-12.660	26.079	1.00	0.00
ATOM	1187	CG	ARG	78	-5.007	-14.096	26.574	1.00	0.00
ATOM	1188	CD	ARG	78	-3.891	-14.964	26.012	1.00	0.00
ATOM	1189	NE	ARG	78	-3.881	-16.311	26.588	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.645	-17.420	25.882	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.393	-17.340	24.580	1.00	0.00
ATOM	1192	NH2	ARG	78	-3.647	-18.607	26.477	1.00	0.00
ATOM	1195	H	ARG	78	-7.187	-13.379	25.253	1.00	0.00
ATOM	1196	HA	ARG	78	-6.328	-11.650	27.313	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.088	-12.181	26.620	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.639	-12.684	25.029	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.960	-14.499	26.263	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.944	-14.101	27.651	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.945	-14.487	26.222	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.020	-15.044	24.942	1.00	0.00
ATOM	1203	HE	ARG	78	-4.058	-16.390	27.554	1.00	0.00
ATOM	1204	1HH1	ARG	78	-3.383	-16.450	24.126	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.211	-18.171	24.048	1.00	0.00
ATOM	1206	1HH2	ARG	78	-3.823	-18.681	27.468	1.00	0.00
ATOM	1207	2HH2	ARG	78	-3.483	-19.437	25.944	1.00	0.00
ATOM	1208	N	PHE	79	-6.315	-10.494	24.251	1.00	0.00
ATOM	1209	CA	PHE	79	-6.243	-9.284	23.449	1.00	0.00
ATOM	1217	C	PHE	79	-7.304	-8.286	23.896	1.00	0.00
ATOM	1218	O	PHE	79	-6.997	-7.125	24.157	1.00	0.00
ATOM	1210	CB	PHE	79	-6.413	-9.607	21.965	1.00	0.00
ATOM	1211	CG	PHE	79	-5.709	-8.637	21.058	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.325	-8.610	20.991	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.433	-7.751	20.276	1.00	0.00
ATOM	1214	CE1	PHE	79	-3.676	-7.715	20.160	1.00	0.00
ATOM	1215	CE2	PHE	79	-5.790	-6.855	19.444	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.410	-6.837	19.386	1.00	0.00
ATOM	1219	H	PHE	79	-6.591	-11.333	23.824	1.00	0.00
ATOM	1220	HA	PHE	79	-5.270	-8.844	23.603	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.463	-9.593	21.717	1.00	0.00



ATOM	1222	2HB	PHE	79	-6.015	-10.593	21.770	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.512	-7.765	20.321	1.00	0.00
ATOM	1224	HD2	PHE	79	-3.751	-9.296	21.595	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.365	-6.170	18.839	1.00	0.00
ATOM	1226	HE2	PHE	79	-2.598	-7.704	20.116	1.00	0.00
ATOM	1227	HZ	PHE	79	-3.905	-6.138	18.737	1.00	0.00
ATOM	1228	N	THR	80	-8.551	-8.736	23.986	1.00	0.00
ATOM	1229	CA	THR	80	-9.642	-7.859	24.409	1.00	0.00
ATOM	1233	C	THR	80	-9.361	-7.237	25.780	1.00	0.00
ATOM	1234	O	THR	80	-9.714	-6.082	26.022	1.00	0.00
ATOM	1230	CB	THR	80	-10.995	-8.595	24.458	1.00	0.00
ATOM	1231	OG1	THR	80	-10.813	-9.936	24.914	1.00	0.00
ATOM	1232	CG2	THR	80	-11.657	-8.605	23.087	1.00	0.00
ATOM	1235	H	THR	80	-8.748	-9.680	23.756	1.00	0.00
ATOM	1236	HA	THR	80	-9.721	-7.062	23.682	1.00	0.00
ATOM	1237	HB	THR	80	-11.644	-8.079	25.148	1.00	0.00
ATOM	1238	HG1	THR	80	-11.310	-10.068	25.734	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.300	-7.743	22.992	1.00	0.00
ATOM	1240	2HG2	THR	80	-12.242	-9.505	22.977	1.00	0.00
ATOM	1241	3HG2	THR	80	-10.897	-8.574	22.320	1.00	0.00
ATOM	1242	N	GLN	81	-8.712	-7.999	26.666	1.00	0.00
ATOM	1243	CA	GLN	81	-8.379	-7.506	28.002	1.00	0.00
ATOM	1249	C	GLN	81	-7.489	-6.277	27.918	1.00	0.00
ATOM	1250	O	GLN	81	-7.802	-5.229	28.483	1.00	0.00
ATOM	1244	CB	GLN	81	-7.668	-8.582	28.826	1.00	0.00
ATOM	1245	CG	GLN	81	-8.537	-9.780	29.153	1.00	0.00
ATOM	1246	CD	GLN	81	-9.386	-9.575	30.391	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.869	-9.495	31.507	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.693	-9.493	30.204	1.00	0.00
ATOM	1251	H	GLN	81	-8.446	-8.912	26.409	1.00	0.00
ATOM	1252	HA	GLN	81	-9.300	-7.236	28.495	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.333	-8.144	29.755	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.808	-8.930	28.274	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.899	-10.639	29.308	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.189	-9.964	28.314	1.00	0.00
ATOM	1257	1HE2	GLN	81	-11.035	-9.567	29.288	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.270	-9.365	30.994	1.00	0.00
ATOM	1259	N	VAL	82	-6.375	-6.414	27.211	1.00	0.00
ATOM	1260	CA	VAL	82	-5.433	-5.310	27.059	1.00	0.00
ATOM	1264	C	VAL	82	-6.042	-4.178	26.240	1.00	0.00
ATOM	1265	O	VAL	82	-5.743	-3.013	26.471	1.00	0.00
ATOM	1261	CB	VAL	82	-4.098	-5.767	26.420	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.536	-6.964	27.162	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.254	-6.086	24.940	1.00	0.00
ATOM	1266	H	VAL	82	-6.180	-7.278	26.785	1.00	0.00
ATOM	1267	HA	VAL	82	-5.214	-4.930	28.051	1.00	0.00
ATOM	1268	HB	VAL	82	-3.393	-4.959	26.516	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.295	-7.372	27.816	1.00	0.00
ATOM	1270	2HG1	VAL	82	-2.683	-6.657	27.749	1.00	0.00
ATOM	1271	3HG1	VAL	82	-3.232	-7.717	26.450	1.00	0.00
ATOM	1272	1HG2	VAL	82	-5.217	-5.738	24.597	1.00	0.00
ATOM	1273	2HG2	VAL	82	-4.184	-7.155	24.793	1.00	0.00
ATOM	1274	3HG2	VAL	82	-3.472	-5.594	24.380	1.00	0.00
ATOM	1275	N	SER	83	-6.908	-4.527	25.294	1.00	0.00
ATOM	1276	CA	SER	83	-7.558	-3.532	24.453	1.00	0.00
ATOM	1279	C	SER	83	-8.493	-2.655	25.278	1.00	0.00
ATOM	1280	O	SER	83	-8.468	-1.430	25.160	1.00	0.00
ATOM	1277	CB	SER	83	-8.333	-4.210	23.322	1.00	0.00
ATOM	1278	OG	SER	83	-7.489	-5.057	22.560	1.00	0.00
ATOM	1281	H	SER	83	-7.115	-5.478	25.163	1.00	0.00
ATOM	1282	HA	SER	83	-6.787	-2.909	24.025	1.00	0.00
ATOM	1283	1HB	SER	83	-8.748	-3.455	22.670	1.00	0.00
ATOM	1284	2HB	SER	83	-9.134	-4.803	23.741	1.00	0.00
ATOM	1285	HG	SER	83	-7.186	-5.790	23.111	1.00	0.00
ATOM	1286	N	ASP	84	-9.310	-3.284	26.120	1.00	0.00
ATOM	1287	CA	ASP	84	-10.247	-2.545	26.960	1.00	0.00
ATOM	1292	C	ASP	84	-9.493	-1.720	27.994	1.00	0.00
ATOM	1293	O	ASP	84	-9.890	-0.605	28.323	1.00	0.00
ATOM	1288	CB	ASP	84	-11.243	-3.490	27.642	1.00	0.00
ATOM	1289	CG	ASP	84	-12.651	-3.357	27.076	1.00	0.00
ATOM	1290	OD1	ASP	84	-12.974	-2.294	26.504	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.439	-4.319	27.188	1.00	0.00
ATOM	1294	H	ASP	84	-9.281	-4.265	26.178	1.00	0.00



ATOM	1295	HA	ASP	84	-10.793	-1.868	26.318	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.276	-3.265	28.697	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.915	-4.510	27.505	1.00	0.00
ATOM	1298	N	GLU	85	-8.386	-2.266	28.483	1.00	0.00
ATOM	1299	CA	GLU	85	-7.560	-1.572	29.464	1.00	0.00
ATOM	1305	C	GLU	85	-6.844	-0.388	28.811	1.00	0.00
ATOM	1306	O	GLU	85	-6.517	0.598	29.471	1.00	0.00
ATOM	1300	CB	GLU	85	-6.539	-2.532	30.077	1.00	0.00
ATOM	1301	CG	GLU	85	-6.169	-2.196	31.513	1.00	0.00
ATOM	1302	CD	GLU	85	-7.220	-2.643	32.507	1.00	0.00
ATOM	1303	OE1	GLU	85	-8.245	-1.940	32.651	1.00	0.00
ATOM	1304	OE2	GLU	85	-7.027	-3.696	33.151	1.00	0.00
ATOM	1307	H	GLU	85	-8.111	-3.153	28.169	1.00	0.00
ATOM	1308	HA	GLU	85	-8.210	-1.202	30.242	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.639	-2.510	29.482	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.947	-3.532	30.059	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.045	-1.127	31.598	1.00	0.00
ATOM	1312	2HG	GLU	85	-5.237	-2.685	31.755	1.00	0.00
ATOM	1313	N	LEU	86	-6.610	-0.492	27.508	1.00	0.00
ATOM	1314	CA	LEU	86	-5.941	0.562	26.756	1.00	0.00
ATOM	1319	C	LEU	86	-6.921	1.680	26.405	1.00	0.00
ATOM	1320	O	LEU	86	-6.531	2.836	26.250	1.00	0.00
ATOM	1315	CB	LEU	86	-5.316	-0.008	25.478	1.00	0.00
ATOM	1316	CG	LEU	86	-3.785	-0.100	25.478	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.334	-1.520	25.164	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.190	0.871	24.473	1.00	0.00
ATOM	1321	H	LEU	86	-6.898	-1.304	27.037	1.00	0.00
ATOM	1322	HA	LEU	86	-5.157	0.967	27.378	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.616	0.616	24.649	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.715	-1.000	25.321	1.00	0.00
ATOM	1325	HG	LEU	86	-3.413	0.161	26.459	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.986	-2.225	25.659	1.00	0.00
ATOM	1327	2HD1	LEU	86	-2.321	-1.661	25.513	1.00	0.00
ATOM	1328	3HD1	LEU	86	-3.372	-1.682	24.097	1.00	0.00
ATOM	1329	1HD2	LEU	86	-2.110	0.847	24.547	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.543	1.870	24.686	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.489	0.588	23.476	1.00	0.00
ATOM	1332	N	PHE	87	-8.193	1.325	26.278	1.00	0.00
ATOM	1333	CA	PHE	87	-9.235	2.291	25.940	1.00	0.00
ATOM	1341	C	PHE	87	-9.919	2.810	27.206	1.00	0.00
ATOM	1342	O	PHE	87	-10.754	3.714	27.146	1.00	0.00
ATOM	1334	CB	PHE	87	-10.259	1.634	25.006	1.00	0.00
ATOM	1335	CG	PHE	87	-11.347	2.556	24.523	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.090	3.502	23.547	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.627	2.474	25.050	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.088	4.350	23.103	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.627	3.319	24.612	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.357	4.259	23.638	1.00	0.00
ATOM	1343	H	PHE	87	-8.441	0.384	26.411	1.00	0.00
ATOM	1344	HA	PHE	87	-8.768	3.120	25.429	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.730	0.811	25.526	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.746	1.252	24.137	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.097	3.575	23.128	1.00	0.00
ATOM	1348	HD2	PHE	87	-12.840	1.740	25.813	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.873	5.083	22.341	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.620	3.246	25.031	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.138	4.920	23.291	1.00	0.00
ATOM	1352	N	GLN	88	-9.559	2.217	28.342	1.00	0.00
ATOM	1353	CA	GLN	88	-10.124	2.575	29.644	1.00	0.00
ATOM	1359	C	GLN	88	-10.245	4.085	29.831	1.00	0.00
ATOM	1360	O	GLN	88	-11.308	4.583	30.201	1.00	0.00
ATOM	1354	CB	GLN	88	-9.277	1.981	30.768	1.00	0.00
ATOM	1355	CG	GLN	88	-9.957	0.836	31.498	1.00	0.00
ATOM	1356	CD	GLN	88	-10.033	1.062	32.994	1.00	0.00
ATOM	1357	OE1	GLN	88	-10.707	1.981	33.463	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.355	0.220	33.754	1.00	0.00
ATOM	1361	H	GLN	88	-8.896	1.495	28.303	1.00	0.00
ATOM	1362	HA	GLN	88	-11.113	2.145	29.697	1.00	0.00
ATOM	1363	1HB	GLN	88	-9.057	2.756	31.486	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.351	1.615	30.351	1.00	0.00
ATOM	1365	1HG	GLN	88	-9.402	-0.072	31.313	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.961	0.727	31.114	1.00	0.00
ATOM	1367	1HE2	GLN	88	-8.841	-0.506	33.309	1.00	0.00



ATOM	1368	2HE2	GLN	88	-9.383	0.345	34.722	1.00	0.00
ATOM	1369	N	GLY	89	-9.170	4.816	29.572	1.00	0.00
ATOM	1370	CA	GLY	89	-9.222	6.251	29.728	1.00	0.00
ATOM	1371	C	GLY	89	-8.075	6.969	29.058	1.00	0.00
ATOM	1372	O	GLY	89	-7.251	7.583	29.732	1.00	0.00
ATOM	1373	H	GLY	89	-8.343	4.380	29.276	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.210	6.485	30.783	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.148	6.611	29.305	1.00	0.00
ATOM	1376	N	GLY	90	-8.023	6.918	27.733	1.00	0.00
ATOM	1377	CA	GLY	90	-6.964	7.612	27.030	1.00	0.00
ATOM	1378	C	GLY	90	-6.557	6.978	25.710	1.00	0.00
ATOM	1379	O	GLY	90	-5.398	6.597	25.546	1.00	0.00
ATOM	1380	H	GLY	90	-8.713	6.429	27.236	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.098	7.653	27.674	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.290	8.622	26.834	1.00	0.00
ATOM	1383	N	PRO	91	-7.465	6.886	24.720	1.00	0.00
ATOM	1384	CA	PRO	91	-7.142	6.332	23.409	1.00	0.00
ATOM	1388	C	PRO	91	-6.464	7.365	22.515	1.00	0.00
ATOM	1389	O	PRO	91	-6.769	7.477	21.331	1.00	0.00
ATOM	1385	CB	PRO	91	-8.497	5.951	22.818	1.00	0.00
ATOM	1386	CG	PRO	91	-9.538	6.649	23.627	1.00	0.00
ATOM	1387	CD	PRO	91	-8.859	7.345	24.785	1.00	0.00
ATOM	1390	HA	PRO	91	-6.516	5.455	23.490	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.618	4.882	22.862	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.540	6.283	21.790	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.262	5.933	23.984	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.028	7.372	23.003	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.317	7.050	25.718	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.913	8.416	24.663	1.00	0.00
ATOM	1397	N	ASN	92	-5.554	8.129	23.102	1.00	0.00
ATOM	1398	CA	ASN	92	-4.837	9.174	22.383	1.00	0.00
ATOM	1403	C	ASN	92	-3.918	8.589	21.320	1.00	0.00
ATOM	1404	O	ASN	92	-3.625	7.396	21.338	1.00	0.00
ATOM	1399	CB	ASN	92	-4.037	10.039	23.355	1.00	0.00
ATOM	1400	CG	ASN	92	-4.009	11.493	22.934	1.00	0.00
ATOM	1401	OD1	ASN	92	-3.827	11.801	21.759	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.186	12.398	23.882	1.00	0.00
ATOM	1405	H	ASN	92	-5.367	7.988	24.053	1.00	0.00
ATOM	1406	HA	ASN	92	-5.573	9.794	21.894	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.020	9.675	23.399	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.482	9.974	24.337	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.325	12.093	24.808	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.169	13.345	23.625	1.00	0.00
ATOM	1411	N	TRP	93	-3.467	9.440	20.398	1.00	0.00
ATOM	1412	CA	TRP	93	-2.581	9.022	19.311	1.00	0.00
ATOM	1423	C	TRP	93	-1.346	8.306	19.851	1.00	0.00
ATOM	1424	O	TRP	93	-0.798	7.428	19.189	1.00	0.00
ATOM	1413	CB	TRP	93	-2.157	10.222	18.457	1.00	0.00
ATOM	1414	CG	TRP	93	-3.260	11.215	18.204	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.352	12.479	18.715	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.421	11.034	17.376	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.492	13.092	18.259	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.164	12.229	17.439	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.909	9.984	16.588	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.361	12.404	16.749	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.099	10.162	15.902	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.810	11.363	15.988	1.00	0.00
ATOM	1425	H	TRP	93	-3.745	10.384	20.447	1.00	0.00
ATOM	1426	HA	TRP	93	-3.130	8.332	18.689	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.806	9.862	17.499	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.353	10.743	18.955	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.625	12.919	19.381	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.781	14.012	18.482	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.373	9.050	16.508	1.00	0.00
ATOM	1432	HZ2	TRP	93	-6.924	13.323	16.803	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.493	9.367	15.287	1.00	0.00
ATOM	1434	HX2	TRP	93	-7.734	11.457	15.437	1.00	0.00
ATOM	1435	N	GLY	94	-0.930	8.661	21.067	1.00	0.00
ATOM	1436	CA	GLY	94	0.216	8.016	21.674	1.00	0.00
ATOM	1437	C	GLY	94	-0.057	6.547	21.936	1.00	0.00
ATOM	1438	O	GLY	94	0.820	5.699	21.794	1.00	0.00
ATOM	1439	H	GLY	94	-1.419	9.348	21.562	1.00	0.00
ATOM	1440	1HA	GLY	94	0.439	8.503	22.611	1.00	0.00



ATOM	1441	2HA	GLY	94	1.065	8.113	21.015	1.00	0.00
ATOM	1442	N	ARG	95	-1.297	6.252	22.304	1.00	0.00
ATOM	1443	CA	ARG	95	-1.714	4.886	22.566	1.00	0.00
ATOM	1451	C	ARG	95	-2.173	4.215	21.281	1.00	0.00
ATOM	1452	O	ARG	95	-2.082	2.998	21.144	1.00	0.00
ATOM	1444	CB	ARG	95	-2.827	4.853	23.612	1.00	0.00
ATOM	1445	CG	ARG	95	-2.368	5.283	24.995	1.00	0.00
ATOM	1446	CD	ARG	95	-2.398	4.126	25.978	1.00	0.00
ATOM	1447	NE	ARG	95	-1.236	3.246	25.833	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.853	2.369	26.761	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.529	2.270	27.898	1.00	0.00
ATOM	1450	NH2	ARG	95	0.200	1.589	26.551	1.00	0.00
ATOM	1453	H	ARG	95	-1.957	6.974	22.379	1.00	0.00
ATOM	1454	HA	ARG	95	-0.857	4.349	22.939	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.212	3.845	23.682	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.622	5.512	23.299	1.00	0.00
ATOM	1457	1HG	ARG	95	-3.022	6.065	25.354	1.00	0.00
ATOM	1458	2HG	ARG	95	-1.358	5.659	24.928	1.00	0.00
ATOM	1459	1HD	ARG	95	-3.296	3.549	25.807	1.00	0.00
ATOM	1460	2HD	ARG	95	-2.413	4.523	26.982	1.00	0.00
ATOM	1461	HE	ARG	95	-0.727	3.308	24.996	1.00	0.00
ATOM	1462	1HH1	ARG	95	-2.329	2.852	28.059	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.247	1.613	28.604	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.713	1.653	25.694	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.483	0.927	27.247	1.00	0.00
ATOM	1466	N	LEU	96	-2.653	5.029	20.340	1.00	0.00
ATOM	1467	CA	LEU	96	-3.123	4.546	19.044	1.00	0.00
ATOM	1472	C	LEU	96	-2.020	3.752	18.354	1.00	0.00
ATOM	1473	O	LEU	96	-2.282	2.799	17.612	1.00	0.00
ATOM	1468	CB	LEU	96	-3.554	5.733	18.171	1.00	0.00
ATOM	1469	CG	LEU	96	-4.607	5.443	17.090	1.00	0.00
ATOM	1470	CD1	LEU	96	-3.955	5.394	15.720	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.351	4.143	17.370	1.00	0.00
ATOM	1474	H	LEU	96	-2.688	5.994	20.524	1.00	0.00
ATOM	1475	HA	LEU	96	-3.972	3.899	19.213	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.673	6.122	17.681	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.946	6.501	18.821	1.00	0.00
ATOM	1478	HG	LEU	96	-5.330	6.245	17.083	1.00	0.00
ATOM	1479	1HD1	LEU	96	-4.706	5.547	14.958	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.488	4.431	15.577	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.208	6.171	15.649	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.391	4.256	17.097	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.279	3.906	18.422	1.00	0.00
ATOM	1484	3HD2	LEU	96	-4.913	3.344	16.791	1.00	0.00
ATOM	1485	N	VAL	97	-0.785	4.137	18.640	1.00	0.00
ATOM	1486	CA	VAL	97	0.372	3.462	18.087	1.00	0.00
ATOM	1490	C	VAL	97	0.413	2.029	18.591	1.00	0.00
ATOM	1491	O	VAL	97	0.451	1.082	17.811	1.00	0.00
ATOM	1487	CB	VAL	97	1.682	4.152	18.496	1.00	0.00
ATOM	1488	CG1	VAL	97	2.834	3.560	17.716	1.00	0.00
ATOM	1489	CG2	VAL	97	1.600	5.654	18.286	1.00	0.00
ATOM	1492	H	VAL	97	-0.652	4.885	19.265	1.00	0.00
ATOM	1493	HA	VAL	97	0.300	3.468	17.005	1.00	0.00
ATOM	1494	HB	VAL	97	1.853	3.964	19.546	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.449	2.961	16.904	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.430	2.940	18.369	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.446	4.357	17.317	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.888	5.870	17.503	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.571	6.032	18.003	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.283	6.129	19.203	1.00	0.00
ATOM	1501	N	ALA	98	0.389	1.894	19.912	1.00	0.00
ATOM	1502	CA	ALA	98	0.418	0.594	20.564	1.00	0.00
ATOM	1504	C	ALA	98	-0.802	-0.241	20.196	1.00	0.00
ATOM	1505	O	ALA	98	-0.724	-1.463	20.161	1.00	0.00
ATOM	1503	CB	ALA	98	0.502	0.764	22.073	1.00	0.00
ATOM	1506	H	ALA	98	0.346	2.699	20.465	1.00	0.00
ATOM	1507	HA	ALA	98	1.307	0.076	20.236	1.00	0.00
ATOM	1508	1HB	ALA	98	0.442	-0.204	22.547	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.317	1.382	22.410	1.00	0.00
ATOM	1510	3HB	ALA	98	1.439	1.235	22.331	1.00	0.00
ATOM	1511	N	PHE	99	-1.920	0.426	19.917	1.00	0.00
ATOM	1512	CA	PHE	99	-3.149	-0.255	19.542	1.00	0.00
ATOM	1520	C	PHE	99	-2.916	-1.134	18.319	1.00	0.00



ATOM	1521	O	PHE	99	-3.106	-2.348	18.364	1.00	0.00
ATOM	1513	CB	PHE	99	-4.245	0.769	19.217	1.00	0.00
ATOM	1514	CG	PHE	99	-5.083	1.240	20.381	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.760	0.347	21.202	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.217	2.597	20.630	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.551	0.807	22.245	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.998	3.059	21.669	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.668	2.169	22.479	1.00	0.00
ATOM	1522	H	PHE	99	-1.916	1.406	19.957	1.00	0.00
ATOM	1523	HA	PHE	99	-3.458	-0.875	20.366	1.00	0.00
ATOM	1524	LHB	PHE	99	-4.908	0.340	18.486	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.780	1.643	18.786	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.666	-0.714	21.022	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.695	3.301	20.000	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.073	0.104	22.878	1.00	0.00
ATOM	1529	HE2	PHE	99	-6.085	4.122	21.847	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.288	2.537	23.288	1.00	0.00
ATOM	1531	N	PHE	100	-2.503	-0.502	17.226	1.00	0.00
ATOM	1532	CA	PHE	100	-2.249	-1.216	15.982	1.00	0.00
ATOM	1540	C	PHE	100	-0.973	-2.040	16.067	1.00	0.00
ATOM	1541	O	PHE	100	-0.902	-3.146	15.534	1.00	0.00
ATOM	1533	CB	PHE	100	-2.146	-0.235	14.815	1.00	0.00
ATOM	1534	CG	PHE	100	-3.447	-0.009	14.106	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.383	0.873	14.618	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.736	-0.678	12.928	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.581	1.083	13.968	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.935	-0.471	12.274	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.860	0.411	12.796	1.00	0.00
ATOM	1542	H	PHE	100	-2.373	0.472	17.256	1.00	0.00
ATOM	1543	HA	PHE	100	-3.080	-1.882	15.807	1.00	0.00
ATOM	1544	LHB	PHE	100	-1.436	-0.619	14.095	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.797	0.718	15.182	1.00	0.00
ATOM	1546	HD1	PHE	100	-4.168	1.402	15.534	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.012	-1.367	12.518	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.304	1.774	14.378	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.150	-0.999	11.357	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.799	0.575	12.290	1.00	0.00
ATOM	1551	N	VAL	101	0.034	-1.490	16.733	1.00	0.00
ATOM	1552	CA	VAL	101	1.315	-2.165	16.878	1.00	0.00
ATOM	1556	C	VAL	101	1.159	-3.503	17.600	1.00	0.00
ATOM	1557	O	VAL	101	1.813	-4.480	17.237	1.00	0.00
ATOM	1553	CB	VAL	101	2.344	-1.271	17.621	1.00	0.00
ATOM	1554	CG1	VAL	101	3.377	-2.099	18.375	1.00	0.00
ATOM	1555	CG2	VAL	101	3.035	-0.337	16.640	1.00	0.00
ATOM	1558	H	VAL	101	-0.085	-0.599	17.129	1.00	0.00
ATOM	1559	HA	VAL	101	1.697	-2.356	15.886	1.00	0.00
ATOM	1560	HB	VAL	101	1.810	-0.667	18.338	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.158	-2.072	19.432	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.361	-1.691	18.200	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.343	-3.122	18.026	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.744	-0.591	15.632	1.00	0.00
ATOM	1565	2HG2	VAL	101	4.106	-0.437	16.740	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.748	0.684	16.851	1.00	0.00
ATOM	1567	N	PHE	102	0.291	-3.551	18.611	1.00	0.00
ATOM	1568	CA	PHE	102	0.078	-4.784	19.362	1.00	0.00
ATOM	1576	C	PHE	102	-0.401	-5.910	18.456	1.00	0.00
ATOM	1577	O	PHE	102	0.103	-7.031	18.529	1.00	0.00
ATOM	1569	CB	PHE	102	-0.929	-4.561	20.491	1.00	0.00
ATOM	1570	CG	PHE	102	-0.309	-4.567	21.859	1.00	0.00
ATOM	1571	CD1	PHE	102	0.820	-3.809	22.128	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.859	-5.328	22.877	1.00	0.00
ATOM	1573	CE1	PHE	102	1.389	-3.810	23.386	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.294	-5.334	24.138	1.00	0.00
ATOM	1575	CZ	PHE	102	0.830	-4.574	24.393	1.00	0.00
ATOM	1578	H	PHE	102	-0.220	-2.737	18.861	1.00	0.00
ATOM	1579	HA	PHE	102	1.025	-5.073	19.791	1.00	0.00
ATOM	1580	LHB	PHE	102	-1.674	-5.343	20.460	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.410	-3.605	20.351	1.00	0.00
ATOM	1582	HD1	PHE	102	1.256	-3.212	21.340	1.00	0.00
ATOM	1583	HD2	PHE	102	-1.738	-5.923	22.678	1.00	0.00
ATOM	1584	HE1	PHE	102	2.269	-3.215	23.582	1.00	0.00
ATOM	1585	HE2	PHE	102	-0.732	-5.932	24.923	1.00	0.00
ATOM	1586	HZ	PHE	102	1.273	-4.576	25.378	1.00	0.00



ATOM	1587	N	GLY	103	-1.370	-5.614	17.604	1.00	0.00
ATOM	1588	CA	GLY	103	-1.887	-6.627	16.710	1.00	0.00
ATOM	1589	C	GLY	103	-0.998	-6.868	15.510	1.00	0.00
ATOM	1590	O	GLY	103	-0.815	-8.011	15.102	1.00	0.00
ATOM	1591	H	GLY	103	-1.738	-4.703	17.586	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.859	-6.332	16.366	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.981	-7.553	17.256	1.00	0.00
ATOM	1594	N	ALA	104	-0.447	-5.800	14.942	1.00	0.00
ATOM	1595	CA	ALA	104	0.427	-5.917	13.777	1.00	0.00
ATOM	1597	C	ALA	104	1.646	-6.766	14.098	1.00	0.00
ATOM	1598	O	ALA	104	2.029	-7.636	13.316	1.00	0.00
ATOM	1596	CB	ALA	104	0.854	-4.542	13.285	1.00	0.00
ATOM	1599	H	ALA	104	-0.634	-4.908	15.314	1.00	0.00
ATOM	1600	HA	ALA	104	-0.133	-6.402	12.986	1.00	0.00
ATOM	1601	1HB	ALA	104	0.347	-4.317	12.359	1.00	0.00
ATOM	1602	2HB	ALA	104	1.921	-4.533	13.123	1.00	0.00
ATOM	1603	3HB	ALA	104	0.596	-3.799	14.026	1.00	0.00
ATOM	1604	N	ALA	105	2.244	-6.531	15.261	1.00	0.00
ATOM	1605	CA	ALA	105	3.400	-7.304	15.673	1.00	0.00
ATOM	1607	C	ALA	105	2.983	-8.739	15.953	1.00	0.00
ATOM	1608	O	ALA	105	3.665	-9.687	15.557	1.00	0.00
ATOM	1606	CB	ALA	105	4.057	-6.687	16.900	1.00	0.00
ATOM	1609	H	ALA	105	1.886	-5.834	15.862	1.00	0.00
ATOM	1610	HA	ALA	105	4.116	-7.295	14.863	1.00	0.00
ATOM	1611	1HB	ALA	105	4.100	-5.614	16.785	1.00	0.00
ATOM	1612	2HB	ALA	105	5.058	-7.078	17.009	1.00	0.00
ATOM	1613	3HB	ALA	105	3.478	-6.932	17.780	1.00	0.00
ATOM	1614	N	LEU	106	1.841	-8.888	16.622	1.00	0.00
ATOM	1615	CA	LEU	106	1.307	-10.201	16.955	1.00	0.00
ATOM	1620	C	LEU	106	1.092	-11.027	15.697	1.00	0.00
ATOM	1621	O	LEU	106	1.462	-12.199	15.641	1.00	0.00
ATOM	1616	CB	LEU	106	-0.010	-10.058	17.719	1.00	0.00
ATOM	1617	CG	LEU	106	-0.256	-11.123	18.786	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.120	-10.517	20.172	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.627	-11.754	18.608	1.00	0.00
ATOM	1622	H	LEU	106	1.335	-8.086	16.893	1.00	0.00
ATOM	1623	HA	LEU	106	2.027	-10.703	17.581	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.825	-10.088	17.010	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.013	-9.090	18.202	1.00	0.00
ATOM	1626	HG	LEU	106	0.488	-11.901	18.688	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.572	-11.176	20.899	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.618	-9.559	20.196	1.00	0.00
ATOM	1629	3HD1	LEU	106	0.926	-10.386	20.406	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.530	-12.680	18.060	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.266	-11.077	18.059	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.063	-11.953	19.577	1.00	0.00
ATOM	1633	N	CYS	107	0.503	-10.391	14.697	1.00	0.00
ATOM	1634	CA	CYS	107	0.221	-11.022	13.415	1.00	0.00
ATOM	1637	C	CYS	107	1.503	-11.517	12.751	1.00	0.00
ATOM	1638	O	CYS	107	1.537	-12.615	12.199	1.00	0.00
ATOM	1635	CB	CYS	107	-0.504	-10.032	12.503	1.00	0.00
ATOM	1636	SG	CYS	107	-2.176	-9.618	13.044	1.00	0.00
ATOM	1639	H	CYS	107	0.248	-9.453	14.828	1.00	0.00
ATOM	1640	HA	CYS	107	-0.422	-11.868	13.593	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.572	-10.445	11.510	1.00	0.00
ATOM	1642	2HB	CYS	107	0.060	-9.113	12.463	1.00	0.00
ATOM	1643	HG	CYS	107	-2.076	-8.883	14.146	1.00	0.00
ATOM	1644	N	ALA	108	2.557	-10.713	12.817	1.00	0.00
ATOM	1645	CA	ALA	108	3.839	-11.081	12.225	1.00	0.00
ATOM	1647	C	ALA	108	4.367	-12.376	12.836	1.00	0.00
ATOM	1648	O	ALA	108	4.965	-13.206	12.146	1.00	0.00
ATOM	1646	CB	ALA	108	4.850	-9.957	12.400	1.00	0.00
ATOM	1649	H	ALA	108	2.473	-9.850	13.279	1.00	0.00
ATOM	1650	HA	ALA	108	3.685	-11.233	11.166	1.00	0.00
ATOM	1651	1HB	ALA	108	5.796	-10.369	12.717	1.00	0.00
ATOM	1652	2HB	ALA	108	4.491	-9.263	13.146	1.00	0.00
ATOM	1653	3HB	ALA	108	4.979	-9.441	11.461	1.00	0.00
ATOM	1654	N	GLU	109	4.136	-12.545	14.131	1.00	0.00
ATOM	1655	CA	GLU	109	4.589	-13.737	14.831	1.00	0.00
ATOM	1661	C	GLU	109	3.678	-14.932	14.562	1.00	0.00
ATOM	1662	O	GLU	109	4.111	-16.079	14.675	1.00	0.00
ATOM	1656	CB	GLU	109	4.672	-13.481	16.333	1.00	0.00
ATOM	1657	CG	GLU	109	6.075	-13.630	16.897	1.00	0.00



ATOM	1658	CD	GLU	109	6.106	-14.472	18.155	1.00	0.00
ATOM	1659	OE1	GLU	109	5.044	-14.639	18.790	1.00	0.00
ATOM	1660	OE2	GLU	109	7.178	-15.014	18.487	1.00	0.00
ATOM	1663	H	GLU	109	3.651	-11.848	14.628	1.00	0.00
ATOM	1664	HA	GLU	109	5.575	-13.974	14.464	1.00	0.00
ATOM	1665	1HB	GLU	109	4.027	-14.181	16.842	1.00	0.00
ATOM	1666	2HB	GLU	109	4.330	-12.477	16.536	1.00	0.00
ATOM	1667	1HG	GLU	109	6.464	-12.648	17.127	1.00	0.00
ATOM	1668	2HG	GLU	109	6.702	-14.098	16.152	1.00	0.00
ATOM	1669	N	SER	110	2.426	-14.680	14.204	1.00	0.00
ATOM	1670	CA	SER	110	1.501	-15.770	13.932	1.00	0.00
ATOM	1673	C	SER	110	1.726	-16.341	12.534	1.00	0.00
ATOM	1674	O	SER	110	1.408	-17.498	12.272	1.00	0.00
ATOM	1671	CB	SER	110	0.052	-15.309	14.087	1.00	0.00
ATOM	1672	OG	SER	110	-0.021	-13.928	14.390	1.00	0.00
ATOM	1675	H	SER	110	2.119	-13.748	14.121	1.00	0.00
ATOM	1676	HA	SER	110	1.696	-16.549	14.654	1.00	0.00
ATOM	1677	1HB	SER	110	-0.415	-15.864	14.886	1.00	0.00
ATOM	1678	2HB	SER	110	-0.481	-15.489	13.164	1.00	0.00
ATOM	1679	HG	SER	110	0.523	-13.735	15.163	1.00	0.00
ATOM	1680	N	VAL	111	2.284	-15.526	11.643	1.00	0.00
ATOM	1681	CA	VAL	111	2.552	-15.959	10.274	1.00	0.00
ATOM	1685	C	VAL	111	3.716	-16.947	10.231	1.00	0.00
ATOM	1686	O	VAL	111	3.701	-17.902	9.457	1.00	0.00
ATOM	1682	CB	VAL	111	2.871	-14.769	9.337	1.00	0.00
ATOM	1683	CG1	VAL	111	3.087	-15.248	7.909	1.00	0.00
ATOM	1684	CG2	VAL	111	1.757	-13.737	9.378	1.00	0.00
ATOM	1687	H	VAL	111	2.517	-14.610	11.912	1.00	0.00
ATOM	1688	HA	VAL	111	1.665	-16.453	9.904	1.00	0.00
ATOM	1689	HB	VAL	111	3.784	-14.299	9.676	1.00	0.00
ATOM	1690	1HG1	VAL	111	3.506	-16.244	7.922	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.768	-14.577	7.405	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.142	-15.261	7.386	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.458	-13.571	10.403	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.912	-14.095	8.809	1.00	0.00
ATOM	1695	3HG2	VAL	111	2.110	-12.809	8.952	1.00	0.00
ATOM	1696	N	ASN	112	4.724	-16.718	11.065	1.00	0.00
ATOM	1697	CA	ASN	112	5.886	-17.602	11.096	1.00	0.00
ATOM	1702	C	ASN	112	5.651	-18.797	12.019	1.00	0.00
ATOM	1703	O	ASN	112	6.517	-19.661	12.163	1.00	0.00
ATOM	1698	CB	ASN	112	7.154	-16.834	11.506	1.00	0.00
ATOM	1699	CG	ASN	112	7.175	-16.422	12.970	1.00	0.00
ATOM	1700	OD1	ASN	112	7.493	-17.215	13.854	1.00	0.00
ATOM	1701	ND2	ASN	112	6.855	-15.165	13.234	1.00	0.00
ATOM	1704	H	ASN	112	4.690	-15.942	11.667	1.00	0.00
ATOM	1705	HA	ASN	112	6.024	-17.979	10.092	1.00	0.00
ATOM	1706	1HB	ASN	112	7.230	-15.942	10.902	1.00	0.00
ATOM	1707	2HB	ASN	112	8.016	-17.457	11.322	1.00	0.00
ATOM	1708	1HD2	ASN	112	6.623	-14.574	12.484	1.00	0.00
ATOM	1709	2HD2	ASN	112	6.862	-14.874	14.169	1.00	0.00
ATOM	1710	N	LYS	113	4.475	-18.848	12.629	1.00	0.00
ATOM	1711	CA	LYS	113	4.127	-19.938	13.527	1.00	0.00
ATOM	1717	C	LYS	113	2.842	-20.627	13.076	1.00	0.00
ATOM	1718	O	LYS	113	2.306	-20.329	12.009	1.00	0.00
ATOM	1712	CB	LYS	113	3.965	-19.414	14.955	1.00	0.00
ATOM	1713	CG	LYS	113	5.122	-19.777	15.874	1.00	0.00
ATOM	1714	CD	LYS	113	4.906	-19.246	17.284	1.00	0.00
ATOM	1715	CE	LYS	113	5.065	-17.735	17.344	1.00	0.00
ATOM	1716	NZ	LYS	113	5.258	-17.248	18.737	1.00	0.00
ATOM	1719	H	LYS	113	3.819	-18.139	12.464	1.00	0.00
ATOM	1720	HA	LYS	113	4.933	-20.656	13.506	1.00	0.00
ATOM	1721	1HB	LYS	113	3.058	-19.822	15.375	1.00	0.00
ATOM	1722	2HB	LYS	113	3.884	-18.337	14.923	1.00	0.00
ATOM	1723	1HG	LYS	113	6.031	-19.354	15.474	1.00	0.00
ATOM	1724	2HG	LYS	113	5.211	-20.853	15.915	1.00	0.00
ATOM	1725	1HD	LYS	113	5.630	-19.703	17.943	1.00	0.00
ATOM	1726	2HD	LYS	113	3.909	-19.507	17.607	1.00	0.00
ATOM	1727	1HE	LYS	113	4.177	-17.277	16.931	1.00	0.00
ATOM	1728	2HE	LYS	113	5.922	-17.454	16.753	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.268	-17.258	18.982	1.00	0.00
ATOM	1730	2HZ	LYS	113	4.741	-17.846	19.407	1.00	0.00
ATOM	1731	3HZ	LYS	113	4.909	-16.260	18.822	1.00	0.00
ATOM	1732	N	GLU	114	2.358	-21.550	13.895	1.00	0.00



ATOM	1733	CA	GLU	114	1.139	-22.299	13.599	1.00	0.00
ATOM	1739	C	GLU	114	-0.100	-21.518	14.042	1.00	0.00
ATOM	1740	O	GLU	114	-0.934	-22.029	14.795	1.00	0.00
ATOM	1734	CB	GLU	114	1.182	-23.644	14.327	1.00	0.00
ATOM	1735	CG	GLU	114	2.526	-24.346	14.236	1.00	0.00
ATOM	1736	CD	GLU	114	2.990	-24.873	15.578	1.00	0.00
ATOM	1737	OE1	GLU	114	2.575	-25.987	15.962	1.00	0.00
ATOM	1738	OE2	GLU	114	3.763	-24.169	16.258	1.00	0.00
ATOM	1741	H	GLU	114	2.837	-21.742	14.729	1.00	0.00
ATOM	1742	HA	GLU	114	1.095	-22.469	12.535	1.00	0.00
ATOM	1743	1HB	GLU	114	0.431	-24.294	13.903	1.00	0.00
ATOM	1744	2HB	GLU	114	0.955	-23.482	15.370	1.00	0.00
ATOM	1745	1HG	GLU	114	3.260	-23.645	13.866	1.00	0.00
ATOM	1746	2HG	GLU	114	2.441	-25.175	13.549	1.00	0.00
ATOM	1747	N	MET	115	-0.212	-20.277	13.590	1.00	0.00
ATOM	1748	CA	MET	115	-1.342	-19.432	13.955	1.00	0.00
ATOM	1753	C	MET	115	-1.837	-18.650	12.743	1.00	0.00
ATOM	1754	O	MET	115	-2.046	-17.439	12.813	1.00	0.00
ATOM	1749	CB	MET	115	-0.944	-18.468	15.078	1.00	0.00
ATOM	1750	CG	MET	115	-0.704	-19.145	16.417	1.00	0.00
ATOM	1751	SD	MET	115	1.029	-19.100	16.919	1.00	0.00
ATOM	1752	CE	MET	115	1.234	-20.749	17.593	1.00	0.00
ATOM	1755	H	MET	115	0.489	-19.917	12.999	1.00	0.00
ATOM	1756	HA	MET	115	-2.137	-20.073	14.304	1.00	0.00
ATOM	1757	1HB	MET	115	-1.731	-17.738	15.204	1.00	0.00
ATOM	1758	2HB	MET	115	-0.036	-17.957	14.791	1.00	0.00
ATOM	1759	1HG	MET	115	-1.016	-20.177	16.344	1.00	0.00
ATOM	1760	2HG	MET	115	-1.294	-18.644	17.170	1.00	0.00
ATOM	1761	1HE	MET	115	0.545	-21.424	17.107	1.00	0.00
ATOM	1762	2HE	MET	115	1.033	-20.732	18.654	1.00	0.00
ATOM	1763	3HE	MET	115	2.247	-21.083	17.423	1.00	0.00
ATOM	1764	N	GLU	116	-2.018	-19.355	11.636	1.00	0.00
ATOM	1765	CA	GLU	116	-2.479	-18.745	10.389	1.00	0.00
ATOM	1771	C	GLU	116	-3.861	-18.084	10.532	1.00	0.00
ATOM	1772	O	GLU	116	-4.011	-16.903	10.217	1.00	0.00
ATOM	1766	CB	GLU	116	-2.497	-19.784	9.257	1.00	0.00
ATOM	1767	CG	GLU	116	-1.507	-20.925	9.447	1.00	0.00
ATOM	1768	CD	GLU	116	-2.135	-22.144	10.090	1.00	0.00
ATOM	1769	OE1	GLU	116	-2.324	-22.133	11.321	1.00	0.00
ATOM	1770	OE2	GLU	116	-2.440	-23.112	9.365	1.00	0.00
ATOM	1773	H	GLU	116	-1.833	-20.324	11.652	1.00	0.00
ATOM	1774	HA	GLU	116	-1.765	-17.976	10.130	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.267	-19.288	8.326	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.489	-20.207	9.191	1.00	0.00
ATOM	1777	1HG	GLU	116	-0.698	-20.582	10.076	1.00	0.00
ATOM	1778	2HG	GLU	116	-1.115	-21.209	8.482	1.00	0.00
ATOM	1779	N	PRO	117	-4.903	-18.817	10.995	1.00	0.00
ATOM	1780	CA	PRO	117	-6.252	-18.253	11.141	1.00	0.00
ATOM	1784	C	PRO	117	-6.344	-17.207	12.252	1.00	0.00
ATOM	1785	O	PRO	117	-7.330	-16.476	12.349	1.00	0.00
ATOM	1781	CB	PRO	117	-7.130	-19.467	11.488	1.00	0.00
ATOM	1782	CG	PRO	117	-6.295	-20.662	11.176	1.00	0.00
ATOM	1783	CD	PRO	117	-4.875	-20.235	11.390	1.00	0.00
ATOM	1786	HA	PRO	117	-6.595	-17.816	10.216	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.026	-19.447	10.886	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.394	-19.434	12.534	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.446	-20.960	10.149	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.548	-21.472	11.844	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.209	-20.800	10.756	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.598	-20.344	12.429	1.00	0.00
ATOM	1793	N	LEU	118	-5.316	-17.138	13.086	1.00	0.00
ATOM	1794	CA	LEU	118	-5.297	-16.183	14.187	1.00	0.00
ATOM	1799	C	LEU	118	-4.930	-14.785	13.698	1.00	0.00
ATOM	1800	O	LEU	118	-5.339	-13.792	14.295	1.00	0.00
ATOM	1795	CB	LEU	118	-4.320	-16.640	15.274	1.00	0.00
ATOM	1796	CG	LEU	118	-4.945	-17.472	16.395	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.863	-18.955	16.071	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.261	-17.172	17.719	1.00	0.00
ATOM	1801	H	LEU	118	-4.555	-17.743	12.961	1.00	0.00
ATOM	1802	HA	LEU	118	-6.291	-16.150	14.606	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.871	-15.765	15.719	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.542	-17.228	14.810	1.00	0.00
ATOM	1805	HG	LEU	118	-5.989	-17.208	16.490	1.00	0.00



ATOM	1806	1HD1	LEU	118	-5.593	-19.199	15.312	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.065	-19.530	16.962	1.00	0.00
ATOM	1808	3HD1	LEU	118	-3.874	-19.190	15.706	1.00	0.00
ATOM	1809	1HD2	LEU	118	-3.869	-18.087	18.137	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.976	-16.741	18.404	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.452	-16.474	17.557	1.00	0.00
ATOM	1812	N	VAL	119	-4.164	-14.717	12.613	1.00	0.00
ATOM	1813	CA	VAL	119	-3.737	-13.440	12.041	1.00	0.00
ATOM	1817	C	VAL	119	-4.935	-12.574	11.657	1.00	0.00
ATOM	1818	O	VAL	119	-5.076	-11.444	12.132	1.00	0.00
ATOM	1814	CB	VAL	119	-2.855	-13.655	10.789	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.503	-12.328	10.134	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.595	-14.426	11.145	1.00	0.00
ATOM	1819	H	VAL	119	-3.874	-15.551	12.183	1.00	0.00
ATOM	1820	HA	VAL	119	-3.153	-12.916	12.786	1.00	0.00
ATOM	1821	HB	VAL	119	-3.418	-14.241	10.078	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.669	-11.524	10.836	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.125	-12.180	9.263	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.464	-12.338	9.837	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.847	-15.457	11.341	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.144	-13.992	12.024	1.00	0.00
ATOM	1827	3HG2	VAL	119	-0.898	-14.377	10.321	1.00	0.00
ATOM	1828	N	GLY	120	-5.798	-13.110	10.797	1.00	0.00
ATOM	1829	CA	GLY	120	-6.971	-12.371	10.364	1.00	0.00
ATOM	1830	C	GLY	120	-7.891	-12.028	11.517	1.00	0.00
ATOM	1831	O	GLY	120	-8.570	-11.005	11.490	1.00	0.00
ATOM	1832	H	GLY	120	-5.634	-14.012	10.455	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.514	-12.954	9.640	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.648	-11.452	9.898	1.00	0.00
ATOM	1835	N	GLN	121	-7.894	-12.873	12.542	1.00	0.00
ATOM	1836	CA	GLN	121	-8.717	-12.632	13.713	1.00	0.00
ATOM	1842	C	GLN	121	-8.200	-11.416	14.458	1.00	0.00
ATOM	1843	O	GLN	121	-8.947	-10.487	14.710	1.00	0.00
ATOM	1837	CB	GLN	121	-8.738	-13.851	14.628	1.00	0.00
ATOM	1838	CG	GLN	121	-9.834	-14.843	14.284	1.00	0.00
ATOM	1839	CD	GLN	121	-10.847	-14.996	15.399	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.663	-15.795	16.313	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.922	-14.229	15.338	1.00	0.00
ATOM	1844	H	GLN	121	-7.318	-13.661	12.515	1.00	0.00
ATOM	1845	HA	GLN	121	-9.722	-12.426	13.374	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.891	-13.519	15.644	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.790	-14.353	14.562	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.383	-15.805	14.090	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.346	-14.501	13.396	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.009	-13.598	14.575	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.601	-14.323	16.044	1.00	0.00
ATOM	1852	N	VAL	122	-6.912	-11.402	14.778	1.00	0.00
ATOM	1853	CA	VAL	122	-6.317	-10.259	15.470	1.00	0.00
ATOM	1857	C	VAL	122	-6.557	-8.986	14.666	1.00	0.00
ATOM	1858	O	VAL	122	-6.779	-7.910	15.223	1.00	0.00
ATOM	1854	CB	VAL	122	-4.799	-10.460	15.692	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.186	-9.268	16.409	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.533	-11.736	16.473	1.00	0.00
ATOM	1859	H	VAL	122	-6.343	-12.165	14.526	1.00	0.00
ATOM	1860	HA	VAL	122	-6.805	-10.156	16.434	1.00	0.00
ATOM	1861	HB	VAL	122	-4.323	-10.555	14.724	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.324	-8.922	15.859	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.885	-9.563	17.402	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.915	-8.473	16.475	1.00	0.00
ATOM	1865	1HG2	VAL	122	-3.481	-11.974	16.428	1.00	0.00
ATOM	1866	2HG2	VAL	122	-5.105	-12.546	16.045	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.826	-11.595	17.503	1.00	0.00
ATOM	1868	N	GLN	123	-6.545	-9.139	13.350	1.00	0.00
ATOM	1869	CA	GLN	123	-6.787	-8.033	12.441	1.00	0.00
ATOM	1875	C	GLN	123	-8.193	-7.482	12.640	1.00	0.00
ATOM	1876	O	GLN	123	-8.380	-6.268	12.761	1.00	0.00
ATOM	1870	CB	GLN	123	-6.601	-8.503	10.999	1.00	0.00
ATOM	1871	CG	GLN	123	-6.033	-7.449	10.070	1.00	0.00
ATOM	1872	CD	GLN	123	-5.544	-8.038	8.758	1.00	0.00
ATOM	1873	OE1	GLN	123	-5.666	-9.238	8.512	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.986	-7.194	7.909	1.00	0.00
ATOM	1877	H	GLN	123	-6.383	-10.034	12.979	1.00	0.00
ATOM	1878	HA	GLN	123	-6.076	-7.253	12.662	1.00	0.00



ATOM	1879	1HB	GLN	123	-7.559	-8.816	10.609	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.930	-9.350	10.994	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.205	-6.961	10.561	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.803	-6.723	9.856	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.921	-6.255	8.172	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.666	-7.544	7.053	1.00	0.00
ATOM	1885	N	GLU	124	-9.180	-8.370	12.684	1.00	0.00
ATOM	1886	CA	GLU	124	-10.555	-7.943	12.877	1.00	0.00
ATOM	1892	C	GLU	124	-10.796	-7.528	14.324	1.00	0.00
ATOM	1893	O	GLU	124	-11.499	-6.555	14.560	1.00	0.00
ATOM	1887	CB	GLU	124	-11.554	-9.015	12.439	1.00	0.00
ATOM	1888	CG	GLU	124	-11.372	-10.347	13.131	1.00	0.00
ATOM	1889	CD	GLU	124	-12.494	-11.322	12.836	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.282	-11.068	11.895	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.594	-12.346	13.544	1.00	0.00
ATOM	1894	H	GLU	124	-8.978	-9.328	12.590	1.00	0.00
ATOM	1895	HA	GLU	124	-10.701	-7.068	12.256	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.451	-9.170	11.375	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.553	-8.662	12.645	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.326	-10.179	14.198	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.438	-10.777	12.803	1.00	0.00
ATOM	1900	N	TRP	125	-10.190	-8.228	15.297	1.00	0.00
ATOM	1901	CA	TRP	125	-10.359	-7.848	16.704	1.00	0.00
ATOM	1912	C	TRP	125	-9.969	-6.388	16.857	1.00	0.00
ATOM	1913	O	TRP	125	-10.575	-5.634	17.621	1.00	0.00
ATOM	1902	CB	TRP	125	-9.465	-8.661	17.667	1.00	0.00
ATOM	1903	CG	TRP	125	-9.570	-10.160	17.607	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.565	-10.925	17.065	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.606	-11.080	18.136	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.260	-12.261	17.208	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.062	-12.378	17.854	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.392	-10.924	18.815	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.342	-13.515	18.216	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.684	-12.053	19.179	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.157	-13.333	18.874	1.00	0.00
ATOM	1914	H	TRP	125	-9.607	-8.992	15.064	1.00	0.00
ATOM	1915	HA	TRP	125	-11.399	-7.967	16.968	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.687	-8.359	18.676	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.438	-8.412	17.459	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.448	-10.531	16.592	1.00	0.00
ATOM	1919	HS1	TRP	125	-10.809	-13.009	16.897	1.00	0.00
ATOM	1920	HS3	TRP	125	-7.017	-9.943	19.078	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.693	-14.510	17.988	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.743	-11.951	19.699	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.572	-14.188	19.188	1.00	0.00
ATOM	1924	N	MET	126	-8.948	-6.007	16.105	1.00	0.00
ATOM	1925	CA	MET	126	-8.443	-4.646	16.130	1.00	0.00
ATOM	1930	C	MET	126	-9.379	-3.691	15.409	1.00	0.00
ATOM	1931	O	MET	126	-9.842	-2.707	15.987	1.00	0.00
ATOM	1926	CB	MET	126	-7.059	-4.586	15.485	1.00	0.00
ATOM	1927	CG	MET	126	-5.930	-4.334	16.470	1.00	0.00
ATOM	1928	SD	MET	126	-4.376	-3.917	15.652	1.00	0.00
ATOM	1929	CE	MET	126	-4.334	-5.130	14.334	1.00	0.00
ATOM	1932	H	MET	126	-8.520	-6.674	15.509	1.00	0.00
ATOM	1933	HA	MET	126	-8.365	-4.339	17.160	1.00	0.00
ATOM	1934	1HB	MET	126	-7.051	-3.794	14.751	1.00	0.00
ATOM	1935	2HB	MET	126	-6.867	-5.526	14.988	1.00	0.00
ATOM	1936	1HG	MET	126	-5.782	-5.224	17.064	1.00	0.00
ATOM	1937	2HG	MET	126	-6.211	-3.515	17.115	1.00	0.00
ATOM	1938	1HE	MET	126	-4.709	-4.686	13.425	1.00	0.00
ATOM	1939	2HE	MET	126	-4.950	-5.975	14.605	1.00	0.00
ATOM	1940	3HE	MET	126	-3.317	-5.459	14.182	1.00	0.00
ATOM	1941	N	VAL	127	-9.644	-3.971	14.140	1.00	0.00
ATOM	1942	CA	VAL	127	-10.505	-3.111	13.340	1.00	0.00
ATOM	1946	C	VAL	127	-11.920	-2.998	13.919	1.00	0.00
ATOM	1947	O	VAL	127	-12.547	-1.946	13.801	1.00	0.00
ATOM	1943	CB	VAL	127	-10.550	-3.550	11.853	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.575	-4.649	11.611	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.831	-2.352	10.959	1.00	0.00
ATOM	1948	H	VAL	127	-9.233	-4.765	13.727	1.00	0.00
ATOM	1949	HA	VAL	127	-10.064	-2.124	13.368	1.00	0.00
ATOM	1950	HB	VAL	127	-9.575	-3.937	11.588	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.074	-5.538	11.260	1.00	0.00



ATOM	1952	2HG1	VAL	127	-12.287	-4.319	10.867	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.093	-4.868	12.532	1.00	0.00
ATOM	1954	1HG2	VAL	127	-11.284	-1.565	11.544	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.504	-2.644	10.166	1.00	0.00
ATOM	1956	3HG2	VAL	127	-9.905	-1.997	10.532	1.00	0.00
ATOM	1957	N	GLU	128	-12.422	-4.052	14.562	1.00	0.00
ATOM	1958	CA	GLU	128	-13.758	-3.996	15.146	1.00	0.00
ATOM	1964	C	GLU	128	-13.756	-3.089	16.363	1.00	0.00
ATOM	1965	O	GLU	128	-14.614	-2.214	16.505	1.00	0.00
ATOM	1959	CB	GLU	128	-14.260	-5.393	15.531	1.00	0.00
ATOM	1960	CG	GLU	128	-14.439	-6.334	14.347	1.00	0.00
ATOM	1961	CD	GLU	128	-15.861	-6.375	13.834	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.374	-5.321	13.414	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.467	-7.469	13.831	1.00	0.00
ATOM	1966	H	GLU	128	-11.884	-4.880	14.655	1.00	0.00
ATOM	1967	HA	GLU	128	-14.416	-3.573	14.408	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.213	-5.294	16.031	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.552	-5.840	16.212	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.153	-7.331	14.652	1.00	0.00
ATOM	1971	2HG	GLU	128	-13.795	-6.008	13.545	1.00	0.00
ATOM	1972	N	TYR	129	-12.772	-3.286	17.231	1.00	0.00
ATOM	1973	CA	TYR	129	-12.636	-2.475	18.432	1.00	0.00
ATOM	1982	C	TYR	129	-12.467	-1.010	18.059	1.00	0.00
ATOM	1983	O	TYR	129	-12.970	-0.106	18.734	1.00	0.00
ATOM	1974	CB	TYR	129	-11.420	-2.931	19.240	1.00	0.00
ATOM	1975	CG	TYR	129	-11.447	-2.468	20.678	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.061	-3.227	21.665	1.00	0.00
ATOM	1977	CD2	TYR	129	-10.863	-1.263	21.043	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.092	-2.794	22.977	1.00	0.00
ATOM	1979	CE2	TYR	129	-10.888	-0.825	22.350	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.505	-1.592	23.313	1.00	0.00
ATOM	1981	OH	TYR	129	-11.537	-1.149	24.612	1.00	0.00
ATOM	1984	H	TYR	129	-12.107	-3.989	17.052	1.00	0.00
ATOM	1985	HA	TYR	129	-13.529	-2.592	19.026	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.527	-2.533	18.780	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.371	-4.007	19.229	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.519	-4.167	21.397	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.381	-0.662	20.285	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.573	-3.396	23.733	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.429	0.115	22.613	1.00	0.00
ATOM	1992	HH	TYR	129	-12.014	-1.787	25.165	1.00	0.00
ATOM	1993	N	LEU	130	-11.743	-0.792	16.977	1.00	0.00
ATOM	1994	CA	LEU	130	-11.470	0.549	16.497	1.00	0.00
ATOM	1999	C	LEU	130	-12.710	1.198	15.889	1.00	0.00
ATOM	2000	O	LEU	130	-13.075	2.304	16.267	1.00	0.00
ATOM	1995	CB	LEU	130	-10.344	0.522	15.472	1.00	0.00
ATOM	1996	CG	LEU	130	-9.014	1.077	15.975	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.978	-0.031	16.081	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.527	2.191	15.064	1.00	0.00
ATOM	2001	H	LEU	130	-11.372	-1.566	16.491	1.00	0.00
ATOM	2002	HA	LEU	130	-11.149	1.142	17.343	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.652	1.105	14.621	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.192	-0.502	15.159	1.00	0.00
ATOM	2005	HG	LEU	130	-9.157	1.492	16.963	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.419	0.083	16.997	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.304	0.026	15.239	1.00	0.00
ATOM	2008	3HD1	LEU	130	-8.474	-0.990	16.080	1.00	0.00
ATOM	2009	1HD2	LEU	130	-8.483	1.830	14.047	1.00	0.00
ATOM	2010	2HD2	LEU	130	-7.544	2.510	15.378	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.211	3.026	15.121	1.00	0.00
ATOM	2012	N	GLU	131	-13.347	0.516	14.948	1.00	0.00
ATOM	2013	CA	GLU	131	-14.538	1.049	14.287	1.00	0.00
ATOM	2019	C	GLU	131	-15.653	1.352	15.286	1.00	0.00
ATOM	2020	O	GLU	131	-16.416	2.299	15.109	1.00	0.00
ATOM	2014	CB	GLU	131	-15.051	0.056	13.240	1.00	0.00
ATOM	2015	CG	GLU	131	-14.324	0.137	11.908	1.00	0.00
ATOM	2016	CD	GLU	131	-14.865	1.233	11.015	1.00	0.00
ATOM	2017	OE1	GLU	131	-16.015	1.105	10.536	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.144	2.221	10.782	1.00	0.00
ATOM	2021	H	GLU	131	-13.005	-0.366	14.677	1.00	0.00
ATOM	2022	HA	GLU	131	-14.259	1.963	13.791	1.00	0.00
ATOM	2023	1HB	GLU	131	-16.099	0.245	13.066	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.934	-0.946	13.627	1.00	0.00



ATOM	2025	1HG	GLU	131	-14.430	-0.808	11.397	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.279	0.330	12.093	1.00	0.00
ATOM	2027	N	THR	132	-15.756	0.531	16.317	1.00	0.00
ATOM	2028	CA	THR	132	-16.801	0.699	17.315	1.00	0.00
ATOM	2032	C	THR	132	-16.498	1.794	18.349	1.00	0.00
ATOM	2033	O	THR	132	-17.393	2.551	18.718	1.00	0.00
ATOM	2029	CB	THR	132	-17.079	-0.626	18.055	1.00	0.00
ATOM	2030	OG1	THR	132	-17.146	-1.708	17.118	1.00	0.00
ATOM	2031	CG2	THR	132	-18.384	-0.555	18.835	1.00	0.00
ATOM	2034	H	THR	132	-15.132	-0.219	16.394	1.00	0.00
ATOM	2035	HA	THR	132	-17.704	0.971	16.789	1.00	0.00
ATOM	2036	HB	THR	132	-16.272	-0.809	18.749	1.00	0.00
ATOM	2037	HG1	THR	132	-16.275	-1.860	16.731	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.280	0.148	19.648	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.618	-1.533	19.233	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.178	-0.234	18.178	1.00	0.00
ATOM	2041	N	ARG	133	-15.267	1.865	18.860	1.00	0.00
ATOM	2042	CA	ARG	133	-14.968	2.864	19.893	1.00	0.00
ATOM	2050	C	ARG	133	-13.814	3.807	19.552	1.00	0.00
ATOM	2051	O	ARG	133	-13.870	4.987	19.896	1.00	0.00
ATOM	2043	CB	ARG	133	-14.683	2.180	21.241	1.00	0.00
ATOM	2044	CG	ARG	133	-15.327	0.810	21.406	1.00	0.00
ATOM	2045	CD	ARG	133	-15.805	0.584	22.837	1.00	0.00
ATOM	2046	NE	ARG	133	-15.750	-0.829	23.223	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.044	-1.294	24.259	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.369	-0.463	25.039	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.023	-2.594	24.525	1.00	0.00
ATOM	2052	H	ARG	133	-14.577	1.227	18.575	1.00	0.00
ATOM	2053	HA	ARG	133	-15.854	3.469	20.007	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.044	2.819	22.034	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.616	2.062	21.349	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.602	0.049	21.155	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.174	0.737	20.740	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.825	0.931	22.920	1.00	0.00
ATOM	2059	2HD	ARG	133	-15.177	1.154	23.505	1.00	0.00
ATOM	2060	HE	ARG	133	-16.260	-1.463	22.676	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.383	0.520	24.866	1.00	0.00
ATOM	2062	2HH1	ARG	133	-13.824	-0.829	25.811	1.00	0.00
ATOM	2063	1HH2	ARG	133	-15.539	-3.243	23.950	1.00	0.00
ATOM	2064	2HH2	ARG	133	-14.482	-2.938	25.307	1.00	0.00
ATOM	2065	N	LEU	134	-12.763	3.311	18.915	1.00	0.00
ATOM	2066	CA	LEU	134	-11.618	4.166	18.597	1.00	0.00
ATOM	2071	C	LEU	134	-12.000	5.275	17.626	1.00	0.00
ATOM	2072	O	LEU	134	-11.691	6.443	17.864	1.00	0.00
ATOM	2067	CB	LEU	134	-10.468	3.343	18.030	1.00	0.00
ATOM	2068	CG	LEU	134	-9.268	3.174	18.960	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.549	4.502	19.163	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.702	2.591	20.297	1.00	0.00
ATOM	2073	H	LEU	134	-12.742	2.360	18.671	1.00	0.00
ATOM	2074	HA	LEU	134	-11.292	4.623	19.520	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.127	3.818	17.123	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.845	2.363	17.785	1.00	0.00
ATOM	2077	HG	LEU	134	-8.575	2.484	18.507	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.758	4.377	19.887	1.00	0.00
ATOM	2079	2HD1	LEU	134	-9.250	5.242	19.520	1.00	0.00
ATOM	2080	3HD1	LEU	134	-8.129	4.828	18.223	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.748	2.323	20.249	1.00	0.00
ATOM	2082	2HD2	LEU	134	-9.552	3.323	21.076	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.115	1.710	20.512	1.00	0.00
ATOM	2084	N	ALA	135	-12.675	4.908	16.539	1.00	0.00
ATOM	2085	CA	ALA	135	-13.111	5.866	15.535	1.00	0.00
ATOM	2087	C	ALA	135	-13.908	7.000	16.168	1.00	0.00
ATOM	2088	O	ALA	135	-13.831	8.141	15.716	1.00	0.00
ATOM	2086	CB	ALA	135	-13.937	5.169	14.462	1.00	0.00
ATOM	2089	H	ALA	135	-12.884	3.958	16.407	1.00	0.00
ATOM	2090	HA	ALA	135	-12.232	6.280	15.064	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.557	4.412	14.919	1.00	0.00
ATOM	2092	2HB	ALA	135	-13.276	4.709	13.743	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.563	5.895	13.963	1.00	0.00
ATOM	2094	N	ASP	136	-14.654	6.688	17.227	1.00	0.00
ATOM	2095	CA	ASP	136	-15.441	7.696	17.928	1.00	0.00
ATOM	2100	C	ASP	136	-14.520	8.741	18.536	1.00	0.00
ATOM	2101	O	ASP	136	-14.638	9.929	18.232	1.00	0.00



ATOM	2096	CB	ASP	136	-16.302	7.041	19.008	1.00	0.00
ATOM	2097	CG	ASP	136	-17.156	8.037	19.764	1.00	0.00
ATOM	2098	OD1	ASP	136	-16.655	8.634	20.737	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.337	8.212	19.402	1.00	0.00
ATOM	2102	H	ASP	136	-14.660	5.760	17.556	1.00	0.00
ATOM	2103	HA	ASP	136	-16.076	8.185	17.204	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.658	6.540	19.715	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.955	6.316	18.547	1.00	0.00
ATOM	2106	N	TRP	137	-13.579	8.291	19.363	1.00	0.00
ATOM	2107	CA	TRP	137	-12.617	9.188	19.977	1.00	0.00
ATOM	2118	C	TRP	137	-11.869	9.961	18.899	1.00	0.00
ATOM	2119	O	TRP	137	-11.697	11.173	18.991	1.00	0.00
ATOM	2108	CB	TRP	137	-11.634	8.377	20.832	1.00	0.00
ATOM	2109	CG	TRP	137	-10.525	9.195	21.426	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.476	9.703	22.688	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.303	9.592	20.788	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.309	10.401	22.873	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.572	10.345	21.720	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.757	9.385	19.518	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.329	10.887	21.421	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.525	9.927	19.223	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.822	10.669	20.172	1.00	0.00
ATOM	2120	H	TRP	137	-13.516	7.326	19.549	1.00	0.00
ATOM	2121	HA	TRP	137	-13.150	9.886	20.604	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.189	7.606	20.219	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.174	7.912	21.644	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.250	9.567	23.423	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.047	10.865	23.697	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.289	8.814	18.770	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.770	11.453	22.141	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.092	9.778	18.246	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.858	11.077	19.899	1.00	0.00
ATOM	2130	N	ILE	138	-11.418	9.239	17.883	1.00	0.00
ATOM	2131	CA	ILE	138	-10.667	9.826	16.786	1.00	0.00
ATOM	2136	C	ILE	138	-11.456	10.917	16.063	1.00	0.00
ATOM	2137	O	ILE	138	-10.922	11.999	15.804	1.00	0.00
ATOM	2132	CB	ILE	138	-10.218	8.740	15.777	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.077	7.912	16.371	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.783	9.364	14.458	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.049	6.481	15.884	1.00	0.00
ATOM	2138	H	ILE	138	-11.587	8.269	17.880	1.00	0.00
ATOM	2139	HA	ILE	138	-9.778	10.272	17.207	1.00	0.00
ATOM	2140	HB	ILE	138	-11.058	8.091	15.580	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.179	7.896	17.447	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.134	8.370	16.111	1.00	0.00
ATOM	2143	1HG2	ILE	138	-10.592	9.959	14.059	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.531	8.584	13.756	1.00	0.00
ATOM	2145	3HG2	ILE	138	-8.918	9.991	14.625	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.350	6.393	15.065	1.00	0.00
ATOM	2147	2HD1	ILE	138	-10.036	6.198	15.548	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.742	5.832	16.690	1.00	0.00
ATOM	2149	N	HIS	139	-12.715	10.645	15.736	1.00	0.00
ATOM	2150	CA	HIS	139	-13.535	11.625	15.026	1.00	0.00
ATOM	2157	C	HIS	139	-13.849	12.836	15.901	1.00	0.00
ATOM	2158	O	HIS	139	-13.994	13.948	15.395	1.00	0.00
ATOM	2151	CB	HIS	139	-14.834	10.997	14.509	1.00	0.00
ATOM	2152	CG	HIS	139	-14.670	10.286	13.198	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.709	10.928	11.983	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.462	8.976	12.918	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.526	10.048	11.017	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.378	8.852	11.552	1.00	0.00
ATOM	2159	H	HIS	139	-13.101	9.766	15.972	1.00	0.00
ATOM	2160	HA	HIS	139	-12.959	11.966	14.177	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.572	11.775	14.376	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.197	10.284	15.233	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.877	11.891	11.839	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.374	8.175	13.638	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.482	10.270	9.964	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.538	8.013	11.060	1.00	0.00
ATOM	2167	N	SER	140	-13.961	12.623	17.203	1.00	0.00
ATOM	2168	CA	SER	140	-14.270	13.713	18.122	1.00	0.00
ATOM	2171	C	SER	140	-13.010	14.403	18.653	1.00	0.00
ATOM	2172	O	SER	140	-13.102	15.388	19.386	1.00	0.00



ATOM	2169	CB	SER	140	-15.104	13.188	19.292	1.00	0.00
ATOM	2170	OG	SER	140	-16.251	12.495	18.826	1.00	0.00
ATOM	2173	H	SER	140	-13.851	11.711	17.558	1.00	0.00
ATOM	2174	HA	SER	140	-14.856	14.438	17.581	1.00	0.00
ATOM	2175	1HB	SER	140	-15.422	14.016	19.907	1.00	0.00
ATOM	2176	2HB	SER	140	-14.505	12.510	19.882	1.00	0.00
ATOM	2177	HG	SER	140	-16.562	11.891	19.519	1.00	0.00
ATOM	2178	N	SER	141	-11.837	13.884	18.309	1.00	0.00
ATOM	2179	CA	SER	141	-10.590	14.468	18.794	1.00	0.00
ATOM	2182	C	SER	141	-9.939	15.388	17.768	1.00	0.00
ATOM	2183	O	SER	141	-9.594	16.526	18.078	1.00	0.00
ATOM	2180	CB	SER	141	-9.608	13.374	19.214	1.00	0.00
ATOM	2181	OG	SER	141	-9.193	13.558	20.558	1.00	0.00
ATOM	2184	H	SER	141	-11.812	13.083	17.744	1.00	0.00
ATOM	2185	HA	SER	141	-10.832	15.054	19.656	1.00	0.00
ATOM	2186	1HB	SER	141	-8.739	13.407	18.575	1.00	0.00
ATOM	2187	2HB	SER	141	-10.085	12.410	19.126	1.00	0.00
ATOM	2188	HG	SER	141	-8.241	13.709	20.580	1.00	0.00
ATOM	2189	N	GLY	142	-9.763	14.893	16.558	1.00	0.00
ATOM	2190	CA	GLY	142	-9.136	15.689	15.519	1.00	0.00
ATOM	2191	C	GLY	142	-9.112	14.958	14.204	1.00	0.00
ATOM	2192	O	GLY	142	-8.815	15.535	13.160	1.00	0.00
ATOM	2193	H	GLY	142	-10.053	13.979	16.369	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.122	15.917	15.812	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.682	16.611	15.399	1.00	0.00
ATOM	2196	N	GLY	143	-9.444	13.681	14.261	1.00	0.00
ATOM	2197	CA	GLY	143	-9.472	12.873	13.065	1.00	0.00
ATOM	2198	C	GLY	143	-8.138	12.268	12.731	1.00	0.00
ATOM	2199	O	GLY	143	-7.108	12.669	13.271	1.00	0.00
ATOM	2200	H	GLY	143	-9.682	13.285	15.130	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.790	13.484	12.240	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.177	12.079	13.199	1.00	0.00
ATOM	2203	N	TRP	144	-8.159	11.306	11.819	1.00	0.00
ATOM	2204	CA	TRP	144	-6.947	10.637	11.380	1.00	0.00
ATOM	2215	C	TRP	144	-6.003	11.651	10.755	1.00	0.00
ATOM	2216	O	TRP	144	-4.784	11.492	10.799	1.00	0.00
ATOM	2205	CB	TRP	144	-7.302	9.532	10.383	1.00	0.00
ATOM	2206	CG	TRP	144	-7.985	8.359	11.027	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.333	8.125	11.114	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.347	7.264	11.685	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.566	6.949	11.792	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.361	6.400	12.147	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.013	6.926	11.926	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.080	5.225	12.837	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.735	5.760	12.610	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.765	4.920	13.058	1.00	0.00
ATOM	2217	H	TRP	144	-9.015	11.045	11.423	1.00	0.00
ATOM	2218	HA	TRP	144	-6.471	10.200	12.244	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.397	9.178	9.911	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.963	9.935	9.629	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.092	8.780	10.711	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.453	6.561	11.988	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.207	7.560	11.587	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.860	4.566	13.188	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.705	5.479	12.804	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.501	4.019	13.590	1.00	0.00
ATOM	2227	N	ALA	145	-6.591	12.711	10.205	1.00	0.00
ATOM	2228	CA	ALA	145	-5.836	13.791	9.584	1.00	0.00
ATOM	2230	C	ALA	145	-4.970	14.510	10.615	1.00	0.00
ATOM	2231	O	ALA	145	-3.836	14.895	10.317	1.00	0.00
ATOM	2229	CB	ALA	145	-6.777	14.775	8.904	1.00	0.00
ATOM	2232	H	ALA	145	-7.567	12.776	10.233	1.00	0.00
ATOM	2233	HA	ALA	145	-5.197	13.357	8.829	1.00	0.00
ATOM	2234	1HB	ALA	145	-7.482	14.235	8.288	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.204	15.451	8.288	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.312	15.339	9.654	1.00	0.00
ATOM	2237	N	GLU	146	-5.490	14.668	11.838	1.00	0.00
ATOM	2238	CA	GLU	146	-4.726	15.324	12.901	1.00	0.00
ATOM	2244	C	GLU	146	-3.481	14.493	13.191	1.00	0.00
ATOM	2245	O	GLU	146	-2.376	15.016	13.347	1.00	0.00
ATOM	2239	CB	GLU	146	-5.587	15.498	14.169	1.00	0.00
ATOM	2240	CG	GLU	146	-4.805	15.429	15.478	1.00	0.00
ATOM	2241	CD	GLU	146	-5.470	16.182	16.617	1.00	0.00



ATOM	2242	OE1	GLU	146	-6.191	17.167	16.346	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.268	15.793	17.791	1.00	0.00
ATOM	2246	H	GLU	146	-6.398	14.320	12.031	1.00	0.00
ATOM	2247	HA	GLU	146	-4.420	16.295	12.539	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.345	14.728	14.186	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.071	16.459	14.124	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.821	15.848	15.316	1.00	0.00
ATOM	2251	2HG	GLU	146	-4.705	14.393	15.767	1.00	0.00
ATOM	2252	N	PHE	147	-3.681	13.185	13.218	1.00	0.00
ATOM	2253	CA	PHE	147	-2.611	12.229	13.450	1.00	0.00
ATOM	2261	C	PHE	147	-1.604	12.261	12.298	1.00	0.00
ATOM	2262	O	PHE	147	-0.403	12.096	12.514	1.00	0.00
ATOM	2254	CB	PHE	147	-3.230	10.835	13.599	1.00	0.00
ATOM	2255	CG	PHE	147	-2.251	9.733	13.881	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.211	9.916	14.776	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.382	8.509	13.248	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.318	8.895	15.031	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.492	7.486	13.499	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.458	7.680	14.391	1.00	0.00
ATOM	2263	H	PHE	147	-4.588	12.848	13.058	1.00	0.00
ATOM	2264	HA	PHE	147	-2.103	12.498	14.370	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.750	10.587	12.684	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.941	10.853	14.411	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.100	10.867	15.275	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.192	8.358	12.550	1.00	0.00
ATOM	2269	HE1	PHE	147	0.491	9.047	15.730	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.604	6.536	12.998	1.00	0.00
ATOM	2271	HZ	PHE	147	0.244	6.883	14.587	1.00	0.00
ATOM	2272	N	THR	148	-2.090	12.492	11.077	1.00	0.00
ATOM	2273	CA	THR	148	-1.210	12.555	9.908	1.00	0.00
ATOM	2277	C	THR	148	-0.291	13.768	9.979	1.00	0.00
ATOM	2278	O	THR	148	0.812	13.749	9.449	1.00	0.00
ATOM	2274	CB	THR	148	-1.991	12.591	8.582	1.00	0.00
ATOM	2275	OG1	THR	148	-3.256	11.953	8.738	1.00	0.00
ATOM	2276	CG2	THR	148	-1.209	11.901	7.473	1.00	0.00
ATOM	2279	H	THR	148	-3.059	12.629	10.962	1.00	0.00
ATOM	2280	HA	THR	148	-0.598	11.664	9.914	1.00	0.00
ATOM	2281	HB	THR	148	-2.150	13.620	8.301	1.00	0.00
ATOM	2282	HG1	THR	148	-3.316	11.556	9.614	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.857	11.210	6.953	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.377	11.362	7.901	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.840	12.641	6.778	1.00	0.00
ATOM	2286	N	ALA	149	-0.738	14.819	10.645	1.00	0.00
ATOM	2287	CA	ALA	149	0.078	16.013	10.783	1.00	0.00
ATOM	2289	C	ALA	149	1.011	15.865	11.976	1.00	0.00
ATOM	2290	O	ALA	149	2.087	16.450	12.021	1.00	0.00
ATOM	2288	CB	ALA	149	-0.798	17.247	10.932	1.00	0.00
ATOM	2291	H	ALA	149	-1.629	14.788	11.060	1.00	0.00
ATOM	2292	HA	ALA	149	0.672	16.119	9.886	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.259	17.478	9.983	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.192	18.083	11.250	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.566	17.057	11.668	1.00	0.00
ATOM	2296	N	LEU	150	0.578	15.069	12.941	1.00	0.00
ATOM	2297	CA	LEU	150	1.349	14.824	14.148	1.00	0.00
ATOM	2302	C	LEU	150	2.531	13.899	13.874	1.00	0.00
ATOM	2303	O	LEU	150	3.614	14.074	14.436	1.00	0.00
ATOM	2298	CB	LEU	150	0.442	14.204	15.212	1.00	0.00
ATOM	2299	CG	LEU	150	-0.218	15.198	16.163	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.559	14.672	16.639	1.00	0.00
ATOM	2301	CD2	LEU	150	0.687	15.487	17.349	1.00	0.00
ATOM	2304	H	LEU	150	-0.294	14.633	12.838	1.00	0.00
ATOM	2305	HA	LEU	150	1.719	15.771	14.510	1.00	0.00
ATOM	2306	1HB	LEU	150	1.018	13.512	15.795	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.332	13.653	14.708	1.00	0.00
ATOM	2308	HG	LEU	150	-0.388	16.123	15.639	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.354	15.207	16.140	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.644	14.815	17.707	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.635	13.620	16.409	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.675	16.546	17.561	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.694	15.178	17.117	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.333	14.943	18.211	1.00	0.00
ATOM	2315	N	TYR	151	2.307	12.904	13.028	1.00	0.00
ATOM	2316	CA	TYR	151	3.344	11.935	12.700	1.00	0.00



ATOM	2325	C	TYR	151	3.621	11.897	11.202	1.00	0.00
ATOM	2326	O	TYR	151	4.048	10.874	10.674	1.00	0.00
ATOM	2317	CB	TYR	151	2.922	10.543	13.175	1.00	0.00
ATOM	2318	CG	TYR	151	3.427	10.183	14.554	1.00	0.00
ATOM	2319	CD1	TYR	151	4.719	9.710	14.740	1.00	0.00
ATOM	2320	CD2	TYR	151	2.610	10.312	15.670	1.00	0.00
ATOM	2321	CE1	TYR	151	5.182	9.379	15.998	1.00	0.00
ATOM	2322	CE2	TYR	151	3.066	9.981	16.932	1.00	0.00
ATOM	2323	CZ	TYR	151	4.352	9.516	17.090	1.00	0.00
ATOM	2324	OH	TYR	151	4.813	9.198	18.343	1.00	0.00
ATOM	2327	H	TYR	151	1.415	12.805	12.627	1.00	0.00
ATOM	2328	HA	TYR	151	4.246	12.223	13.215	1.00	0.00
ATOM	2329	1HB	TYR	151	3.300	9.807	12.479	1.00	0.00
ATOM	2330	2HB	TYR	151	1.845	10.490	13.195	1.00	0.00
ATOM	2331	HD1	TYR	151	5.368	9.603	13.883	1.00	0.00
ATOM	2332	HD2	TYR	151	1.601	10.674	15.544	1.00	0.00
ATOM	2333	HE1	TYR	151	6.191	9.013	16.123	1.00	0.00
ATOM	2334	HE2	TYR	151	2.416	10.088	17.786	1.00	0.00
ATOM	2335	HH	TYR	151	5.777	9.318	18.370	1.00	0.00
ATOM	2336	N	GLY	152	3.370	12.997	10.512	1.00	0.00
ATOM	2337	CA	GLY	152	3.604	13.021	9.088	1.00	0.00
ATOM	2338	C	GLY	152	4.646	14.033	8.681	1.00	0.00
ATOM	2339	O	GLY	152	5.655	14.213	9.362	1.00	0.00
ATOM	2340	H	GLY	152	3.020	13.791	10.963	1.00	0.00
ATOM	2341	1HA	GLY	152	2.675	13.256	8.588	1.00	0.00
ATOM	2342	2HA	GLY	152	3.931	12.041	8.773	1.00	0.00
ATOM	2343	N	ASP	153	4.399	14.684	7.558	1.00	0.00
ATOM	2344	CA	ASP	153	5.319	15.684	7.021	1.00	0.00
ATOM	2349	C	ASP	153	5.196	17.006	7.767	1.00	0.00
ATOM	2350	O	ASP	153	6.198	17.649	8.080	1.00	0.00
ATOM	2345	CB	ASP	153	5.052	15.898	5.530	1.00	0.00
ATOM	2346	CG	ASP	153	6.153	15.325	4.664	1.00	0.00
ATOM	2347	OD1	ASP	153	7.241	15.933	4.601	1.00	0.00
ATOM	2348	OD2	ASP	153	5.940	14.259	4.047	1.00	0.00
ATOM	2351	H	ASP	153	3.578	14.478	7.068	1.00	0.00
ATOM	2352	HA	ASP	153	6.323	15.307	7.145	1.00	0.00
ATOM	2353	1HB	ASP	153	4.976	16.957	5.332	1.00	0.00
ATOM	2354	2HB	ASP	153	4.123	15.417	5.264	1.00	0.00
ATOM	2355	N	GLY	154	3.964	17.402	8.062	1.00	0.00
ATOM	2356	CA	GLY	154	3.730	18.645	8.775	1.00	0.00
ATOM	2357	C	GLY	154	3.864	18.486	10.276	1.00	0.00
ATOM	2358	O	GLY	154	3.075	19.040	11.040	1.00	0.00
ATOM	2359	H	GLY	154	3.207	16.844	7.794	1.00	0.00
ATOM	2360	1HA	GLY	154	2.734	18.995	8.547	1.00	0.00
ATOM	2361	2HA	GLY	154	4.446	19.381	8.437	1.00	0.00
ATOM	2362	N	ALA	155	4.871	17.735	10.698	1.00	0.00
ATOM	2363	CA	ALA	155	5.122	17.500	12.107	1.00	0.00
ATOM	2365	C	ALA	155	5.957	18.628	12.688	1.00	0.00
ATOM	2366	O	ALA	155	7.146	18.462	12.962	1.00	0.00
ATOM	2364	CB	ALA	155	5.815	16.159	12.308	1.00	0.00
ATOM	2367	H	ALA	155	5.467	17.333	10.038	1.00	0.00
ATOM	2368	HA	ALA	155	4.171	17.468	12.617	1.00	0.00
ATOM	2369	1HB	ALA	155	5.480	15.715	13.234	1.00	0.00
ATOM	2370	2HB	ALA	155	6.884	16.309	12.348	1.00	0.00
ATOM	2371	3HB	ALA	155	5.574	15.503	11.486	1.00	0.00
ATOM	2372	N	LEU	156	5.322	19.780	12.856	1.00	0.00
ATOM	2373	CA	LEU	156	5.977	20.958	13.391	1.00	0.00
ATOM	2378	C	LEU	156	6.365	20.752	14.851	1.00	0.00
ATOM	2379	O	LEU	156	5.963	19.767	15.475	1.00	0.00
ATOM	2374	CB	LEU	156	5.062	22.177	13.251	1.00	0.00
ATOM	2375	CG	LEU	156	3.654	22.032	13.835	1.00	0.00
ATOM	2376	CD1	LEU	156	3.225	23.332	14.493	1.00	0.00
ATOM	2377	CD2	LEU	156	2.657	21.639	12.756	1.00	0.00
ATOM	2380	H	LEU	156	4.382	19.842	12.599	1.00	0.00
ATOM	2381	HA	LEU	156	6.874	21.126	12.815	1.00	0.00
ATOM	2382	1HB	LEU	156	4.968	22.409	12.205	1.00	0.00
ATOM	2383	2HB	LEU	156	5.540	23.003	13.740	1.00	0.00
ATOM	2384	HG	LEU	156	3.658	21.259	14.589	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.444	24.158	13.833	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.762	23.459	15.421	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.163	23.302	14.691	1.00	0.00
ATOM	2388	1HD2	LEU	156	3.099	21.797	11.782	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.768	22.245	12.848	1.00	0.00



ATOM	2390	3HD2	LEU	156	2.396	20.597	12.868	1.00	0.00
ATOM	2391	N	GLU	157	7.150	21.683	15.384	1.00	0.00
ATOM	2392	CA	GLU	157	7.613	21.619	16.764	1.00	0.00
ATOM	2398	C	GLU	157	6.455	21.441	17.741	1.00	0.00
ATOM	2399	O	GLU	157	6.574	20.710	18.725	1.00	0.00
ATOM	2393	CB	GLU	157	8.401	22.876	17.105	1.00	0.00
ATOM	2394	CG	GLU	157	9.754	22.947	16.417	1.00	0.00
ATOM	2395	CD	GLU	157	10.814	22.118	17.118	1.00	0.00
ATOM	2396	OE1	GLU	157	10.652	20.882	17.209	1.00	0.00
ATOM	2397	OE2	GLU	157	11.826	22.697	17.562	1.00	0.00
ATOM	2400	H	GLU	157	7.435	22.437	14.829	1.00	0.00
ATOM	2401	HA	GLU	157	8.268	20.771	16.850	1.00	0.00
ATOM	2402	1HB	GLU	157	8.559	22.912	18.169	1.00	0.00
ATOM	2403	2HB	GLU	157	7.825	23.733	16.807	1.00	0.00
ATOM	2404	1HG	GLU	157	10.081	23.978	16.397	1.00	0.00
ATOM	2405	2HG	GLU	157	9.648	22.585	15.407	1.00	0.00
ATOM	2406	N	GLU	158	5.333	22.099	17.460	1.00	0.00
ATOM	2407	CA	GLU	158	4.158	22.000	18.320	1.00	0.00
ATOM	2413	C	GLU	158	3.630	20.573	18.336	1.00	0.00
ATOM	2414	O	GLU	158	3.365	20.017	19.396	1.00	0.00
ATOM	2408	CB	GLU	158	3.055	22.952	17.852	1.00	0.00
ATOM	2409	CG	GLU	158	3.154	24.345	18.450	1.00	0.00
ATOM	2410	CD	GLU	158	4.496	24.988	18.185	1.00	0.00
ATOM	2411	OE1	GLU	158	4.858	25.139	17.000	1.00	0.00
ATOM	2412	OE2	GLU	158	5.195	25.325	19.159	1.00	0.00
ATOM	2415	H	GLU	158	5.296	22.663	16.652	1.00	0.00
ATOM	2416	HA	GLU	158	4.457	22.271	19.322	1.00	0.00
ATOM	2417	1HB	GLU	158	2.097	22.535	18.123	1.00	0.00
ATOM	2418	2HB	GLU	158	3.109	23.044	16.778	1.00	0.00
ATOM	2419	1HG	GLU	158	3.008	24.278	19.519	1.00	0.00
ATOM	2420	2HG	GLU	158	2.382	24.965	18.019	1.00	0.00
ATOM	2421	N	ALA	159	3.494	19.985	17.155	1.00	0.00
ATOM	2422	CA	ALA	159	3.004	18.619	17.029	1.00	0.00
ATOM	2424	C	ALA	159	3.983	17.629	17.654	1.00	0.00
ATOM	2425	O	ALA	159	3.575	16.641	18.265	1.00	0.00
ATOM	2423	CB	ALA	159	2.768	18.274	15.567	1.00	0.00
ATOM	2426	H	ALA	159	3.734	20.481	16.346	1.00	0.00
ATOM	2427	HA	ALA	159	2.059	18.555	17.549	1.00	0.00
ATOM	2428	1HB	ALA	159	3.230	19.023	14.942	1.00	0.00
ATOM	2429	2HB	ALA	159	1.707	18.245	15.370	1.00	0.00
ATOM	2430	3HB	ALA	159	3.201	17.308	15.350	1.00	0.00
ATOM	2431	N	ARG	160	5.273	17.909	17.498	1.00	0.00
ATOM	2432	CA	ARG	160	6.327	17.056	18.040	1.00	0.00
ATOM	2440	C	ARG	160	6.183	16.913	19.553	1.00	0.00
ATOM	2441	O	ARG	160	6.041	15.805	20.072	1.00	0.00
ATOM	2433	CB	ARG	160	7.705	17.635	17.707	1.00	0.00
ATOM	2434	CG	ARG	160	8.103	17.503	16.243	1.00	0.00
ATOM	2435	CD	ARG	160	9.235	18.460	15.896	1.00	0.00
ATOM	2436	NE	ARG	160	9.396	18.630	14.451	1.00	0.00
ATOM	2437	CZ	ARG	160	10.362	19.357	13.886	1.00	0.00
ATOM	2438	NH1	ARG	160	11.186	20.076	14.638	1.00	0.00
ATOM	2439	NH2	ARG	160	10.479	19.399	12.562	1.00	0.00
ATOM	2442	H	ARG	160	5.523	18.715	17.001	1.00	0.00
ATOM	2443	HA	ARG	160	6.234	16.080	17.585	1.00	0.00
ATOM	2444	1HB	ARG	160	8.448	17.127	18.304	1.00	0.00
ATOM	2445	2HB	ARG	160	7.710	18.684	17.962	1.00	0.00
ATOM	2446	1HG	ARG	160	7.248	17.731	15.624	1.00	0.00
ATOM	2447	2HG	ARG	160	8.428	16.491	16.057	1.00	0.00
ATOM	2448	1HD	ARG	160	10.155	18.069	16.308	1.00	0.00
ATOM	2449	2HD	ARG	160	9.024	19.421	16.340	1.00	0.00
ATOM	2450	HE	ARG	160	8.752	18.161	13.869	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.084	20.081	15.642	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.905	20.631	14.212	1.00	0.00
ATOM	2453	1HH2	ARG	160	9.837	18.893	11.981	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.222	19.932	12.137	1.00	0.00
ATOM	2455	N	ARG	161	6.217	18.041	20.251	1.00	0.00
ATOM	2456	CA	ARG	161	6.093	18.041	21.704	1.00	0.00
ATOM	2464	C	ARG	161	4.699	17.605	22.142	1.00	0.00
ATOM	2465	O	ARG	161	4.527	17.052	23.228	1.00	0.00
ATOM	2457	CB	ARG	161	6.412	19.423	22.276	1.00	0.00
ATOM	2458	CG	ARG	161	5.593	20.545	21.667	1.00	0.00
ATOM	2459	CD	ARG	161	5.550	21.758	22.581	1.00	0.00
ATOM	2460	NE	ARG	161	5.578	23.023	21.842	1.00	0.00



ATOM	2461	CZ	ARG	161	5.960	24.185	22.376	1.00	0.00
ATOM	2462	NH1	ARG	161	6.413	24.231	23.623	1.00	0.00
ATOM	2463	NH2	ARG	161	5.913	25.297	21.658	1.00	0.00
ATOM	2466	H	ARG	161	6.330	18.895	19.778	1.00	0.00
ATOM	2467	HA	ARG	161	6.811	17.338	22.088	1.00	0.00
ATOM	2468	1HB	ARG	161	7.458	19.636	22.108	1.00	0.00
ATOM	2469	2HB	ARG	161	6.225	19.410	23.339	1.00	0.00
ATOM	2470	1HG	ARG	161	4.586	20.193	21.500	1.00	0.00
ATOM	2471	2HG	ARG	161	6.039	20.825	20.726	1.00	0.00
ATOM	2472	1HD	ARG	161	6.402	21.721	23.243	1.00	0.00
ATOM	2473	2HD	ARG	161	4.642	21.718	23.165	1.00	0.00
ATOM	2474	HE	ARG	161	5.281	23.006	20.906	1.00	0.00
ATOM	2475	1HH1	ARG	161	6.474	23.389	24.170	1.00	0.00
ATOM	2476	2HH1	ARG	161	6.702	25.106	24.025	1.00	0.00
ATOM	2477	1HH2	ARG	161	5.590	25.275	20.696	1.00	0.00
ATOM	2478	2HH2	ARG	161	6.193	26.177	22.065	1.00	0.00
ATOM	2479	N	LEU	162	3.705	17.863	21.301	1.00	0.00
ATOM	2480	CA	LEU	162	2.331	17.505	21.617	1.00	0.00
ATOM	2485	C	LEU	162	2.143	15.996	21.655	1.00	0.00
ATOM	2486	O	LEU	162	1.584	15.471	22.610	1.00	0.00
ATOM	2481	CB	LEU	162	1.361	18.124	20.609	1.00	0.00
ATOM	2482	CG	LEU	162	0.454	19.218	21.168	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.110	20.070	20.040	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.667	18.605	21.995	1.00	0.00
ATOM	2487	H	LEU	162	3.900	18.313	20.452	1.00	0.00
ATOM	2488	HA	LEU	162	2.111	17.899	22.598	1.00	0.00
ATOM	2489	1HB	LEU	162	0.735	17.338	20.213	1.00	0.00
ATOM	2490	2HB	LEU	162	1.938	18.545	19.798	1.00	0.00
ATOM	2491	HG	LEU	162	1.033	19.862	21.815	1.00	0.00
ATOM	2492	1HD1	LEU	162	0.684	20.326	19.352	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.537	20.975	20.447	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.875	19.517	19.516	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.485	17.546	22.115	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.611	18.753	21.492	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.698	19.076	22.967	1.00	0.00
ATOM	2498	N	ARG	163	2.603	15.302	20.620	1.00	0.00
ATOM	2499	CA	ARG	163	2.455	13.850	20.571	1.00	0.00
ATOM	2507	C	ARG	163	3.252	13.178	21.684	1.00	0.00
ATOM	2508	O	ARG	163	2.788	12.205	22.280	1.00	0.00
ATOM	2500	CB	ARG	163	2.847	13.285	19.199	1.00	0.00
ATOM	2501	CG	ARG	163	4.248	13.643	18.745	1.00	0.00
ATOM	2502	CD	ARG	163	4.518	13.114	17.349	1.00	0.00
ATOM	2503	NE	ARG	163	5.775	12.370	17.281	1.00	0.00
ATOM	2504	CZ	ARG	163	6.596	12.372	16.232	1.00	0.00
ATOM	2505	NH1	ARG	163	6.306	13.089	15.150	1.00	0.00
ATOM	2506	NH2	ARG	163	7.692	11.627	16.259	1.00	0.00
ATOM	2509	H	ARG	163	3.043	15.773	19.875	1.00	0.00
ATOM	2510	HA	ARG	163	1.409	13.635	20.740	1.00	0.00
ATOM	2511	1HB	ARG	163	2.150	13.657	18.462	1.00	0.00
ATOM	2512	2HB	ARG	163	2.774	12.209	19.234	1.00	0.00
ATOM	2513	1HG	ARG	163	4.961	13.210	19.429	1.00	0.00
ATOM	2514	2HG	ARG	163	4.353	14.718	18.739	1.00	0.00
ATOM	2515	1HD	ARG	163	4.555	13.944	16.657	1.00	0.00
ATOM	2516	2HD	ARG	163	3.709	12.454	17.070	1.00	0.00
ATOM	2517	HE	ARG	163	6.012	11.815	18.062	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.460	13.632	15.112	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.929	13.087	14.365	1.00	0.00
ATOM	2520	1HH2	ARG	163	7.898	11.057	17.073	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.319	11.614	15.469	1.00	0.00
ATOM	2522	N	GLU	164	4.436	13.707	21.978	1.00	0.00
ATOM	2523	CA	GLU	164	5.270	13.151	23.036	1.00	0.00
ATOM	2529	C	GLU	164	4.638	13.404	24.401	1.00	0.00
ATOM	2530	O	GLU	164	4.524	12.489	25.220	1.00	0.00
ATOM	2524	CB	GLU	164	6.682	13.732	22.972	1.00	0.00
ATOM	2525	CG	GLU	164	7.676	12.817	22.272	1.00	0.00
ATOM	2526	CD	GLU	164	9.114	13.164	22.590	1.00	0.00
ATOM	2527	OE1	GLU	164	9.677	14.051	21.918	1.00	0.00
ATOM	2528	OE2	GLU	164	9.689	12.542	23.505	1.00	0.00
ATOM	2531	H	GLU	164	4.749	14.495	21.481	1.00	0.00
ATOM	2532	HA	GLU	164	5.324	12.084	22.877	1.00	0.00
ATOM	2533	1HB	GLU	164	7.033	13.906	23.978	1.00	0.00
ATOM	2534	2HB	GLU	164	6.651	14.672	22.442	1.00	0.00
ATOM	2535	1HG	GLU	164	7.529	12.898	21.205	1.00	0.00



ATOM	2536	2HG	GLU	164	7.494	11.795	22.581	1.00	0.00
ATOM	2537	N	GLY	165	4.200	14.636	24.635	1.00	0.00
ATOM	2538	CA	GLY	165	3.562	14.957	25.897	1.00	0.00
ATOM	2539	C	GLY	165	2.235	14.238	26.038	1.00	0.00
ATOM	2540	O	GLY	165	1.755	13.996	27.148	1.00	0.00
ATOM	2541	H	GLY	165	4.290	15.330	23.941	1.00	0.00
ATOM	2542	1HA	GLY	165	3.395	16.023	25.949	1.00	0.00
ATOM	2543	2HA	GLY	165	4.214	14.660	26.706	1.00	0.00
ATOM	2544	N	ASN	166	1.650	13.893	24.897	1.00	0.00
ATOM	2545	CA	ASN	166	0.377	13.193	24.856	1.00	0.00
ATOM	2550	C	ASN	166	0.505	11.799	25.439	1.00	0.00
ATOM	2551	O	ASN	166	-0.159	11.472	26.423	1.00	0.00
ATOM	2546	CB	ASN	166	-0.137	13.083	23.418	1.00	0.00
ATOM	2547	CG	ASN	166	-1.344	13.962	23.155	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.801	14.697	24.029	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.873	13.887	21.946	1.00	0.00
ATOM	2552	H	ASN	166	2.094	14.119	24.051	1.00	0.00
ATOM	2553	HA	ASN	166	-0.335	13.756	25.442	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.413	12.056	23.221	1.00	0.00
ATOM	2555	2HB	ASN	166	0.651	13.372	22.739	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.461	13.281	21.297	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.661	14.433	21.752	1.00	0.00
ATOM	2558	N	TRP	167	1.356	10.972	24.826	1.00	0.00
ATOM	2559	CA	TRP	167	1.541	9.603	25.289	1.00	0.00
ATOM	2570	C	TRP	167	2.078	9.557	26.710	1.00	0.00
ATOM	2571	O	TRP	167	1.834	8.591	27.428	1.00	0.00
ATOM	2560	CB	TRP	167	2.411	8.768	24.324	1.00	0.00
ATOM	2561	CG	TRP	167	3.844	9.198	24.176	1.00	0.00
ATOM	2562	CD1	TRP	167	4.411	9.779	23.079	1.00	0.00
ATOM	2563	CD2	TRP	167	4.902	9.040	25.132	1.00	0.00
ATOM	2564	NE1	TRP	167	5.747	10.010	23.302	1.00	0.00
ATOM	2565	CE2	TRP	167	6.072	9.569	24.555	1.00	0.00
ATOM	2566	CE3	TRP	167	4.967	8.515	26.423	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.293	9.583	25.225	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.179	8.530	27.089	1.00	0.00
ATOM	2569	CH2	TRP	167	7.328	9.061	26.489	1.00	0.00
ATOM	2572	H	TRP	167	1.854	11.288	24.044	1.00	0.00
ATOM	2573	HA	TRP	167	0.556	9.157	25.308	1.00	0.00
ATOM	2574	1HB	TRP	167	1.958	8.796	23.343	1.00	0.00
ATOM	2575	2HB	TRP	167	2.420	7.745	24.667	1.00	0.00
ATOM	2576	HD1	TRP	167	3.873	10.023	22.176	1.00	0.00
ATOM	2577	HE1	TRP	167	6.366	10.427	22.666	1.00	0.00
ATOM	2578	HE3	TRP	167	4.081	8.102	26.901	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.186	9.990	24.775	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.248	8.127	28.088	1.00	0.00
ATOM	2581	HM2	TRP	167	8.254	9.052	27.045	1.00	0.00
ATOM	2582	N	ALA	168	2.786	10.601	27.122	1.00	0.00
ATOM	2583	CA	ALA	168	3.326	10.655	28.472	1.00	0.00
ATOM	2585	C	ALA	168	2.198	10.595	29.493	1.00	0.00
ATOM	2586	O	ALA	168	2.302	9.927	30.519	1.00	0.00
ATOM	2584	CB	ALA	168	4.158	11.915	28.666	1.00	0.00
ATOM	2587	H	ALA	168	2.943	11.352	26.507	1.00	0.00
ATOM	2588	HA	ALA	168	3.971	9.799	28.611	1.00	0.00
ATOM	2589	1HB	ALA	168	5.207	11.660	28.653	1.00	0.00
ATOM	2590	2HB	ALA	168	3.908	12.369	29.613	1.00	0.00
ATOM	2591	3HB	ALA	168	3.947	12.612	27.867	1.00	0.00
ATOM	2592	N	SER	169	1.120	11.303	29.199	1.00	0.00
ATOM	2593	CA	SER	169	-0.032	11.346	30.081	1.00	0.00
ATOM	2596	C	SER	169	-1.021	10.199	29.826	1.00	0.00
ATOM	2597	O	SER	169	-1.801	9.849	30.712	1.00	0.00
ATOM	2594	CB	SER	169	-0.737	12.695	29.930	1.00	0.00
ATOM	2595	OG	SER	169	0.203	13.732	29.679	1.00	0.00
ATOM	2598	H	SER	169	1.099	11.817	28.364	1.00	0.00
ATOM	2599	HA	SER	169	0.333	11.261	31.095	1.00	0.00
ATOM	2600	1HB	SER	169	-1.273	12.923	30.839	1.00	0.00
ATOM	2601	2HB	SER	169	-1.431	12.646	29.104	1.00	0.00
ATOM	2602	HG	SER	169	0.384	13.783	28.732	1.00	0.00
ATOM	2603	N	VAL	170	-1.030	9.635	28.616	1.00	0.00
ATOM	2604	CA	VAL	170	-1.992	8.569	28.306	1.00	0.00
ATOM	2608	C	VAL	170	-1.431	7.152	28.449	1.00	0.00
ATOM	2609	O	VAL	170	-2.137	6.250	28.893	1.00	0.00
ATOM	2605	CB	VAL	170	-2.597	8.708	26.892	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.623	9.830	26.850	1.00	0.00



ATOM	2607	CG2	VAL	170	-1.529	8.916	25.837	1.00	0.00
ATOM	2610	H	VAL	170	-0.416	9.962	27.919	1.00	0.00
ATOM	2611	HA	VAL	170	-2.805	8.673	29.009	1.00	0.00
ATOM	2612	HB	VAL	170	-3.101	7.784	26.664	1.00	0.00
ATOM	2613	1HG1	VAL	170	-4.613	9.410	26.746	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.416	10.477	26.008	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.570	10.401	27.765	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.576	9.077	26.318	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.777	9.779	25.234	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.470	8.041	25.206	1.00	0.00
ATOM	2619	N	ARG	171	-0.190	6.930	28.055	1.00	0.00
ATOM	2620	CA	ARG	171	0.383	5.591	28.137	1.00	0.00
ATOM	2628	C	ARG	171	0.710	5.213	29.578	1.00	0.00
ATOM	2629	O	ARG	171	0.727	4.034	29.930	1.00	0.00
ATOM	2621	CB	ARG	171	1.610	5.472	27.224	1.00	0.00
ATOM	2622	CG	ARG	171	2.946	5.474	27.945	1.00	0.00
ATOM	2623	CD	ARG	171	4.093	5.292	26.969	1.00	0.00
ATOM	2624	NE	ARG	171	5.388	5.286	27.649	1.00	0.00
ATOM	2625	CZ	ARG	171	6.561	5.167	27.033	1.00	0.00
ATOM	2626	NH1	ARG	171	6.618	5.023	25.712	1.00	0.00
ATOM	2627	NH2	ARG	171	7.677	5.199	27.746	1.00	0.00
ATOM	2630	H	ARG	171	0.347	7.668	27.686	1.00	0.00
ATOM	2631	HA	ARG	171	-0.371	4.903	27.780	1.00	0.00
ATOM	2632	1HB	ARG	171	1.602	6.300	26.529	1.00	0.00
ATOM	2633	2HB	ARG	171	1.536	4.551	26.664	1.00	0.00
ATOM	2634	1HG	ARG	171	2.961	4.665	28.661	1.00	0.00
ATOM	2635	2HG	ARG	171	3.069	6.417	28.458	1.00	0.00
ATOM	2636	1HD	ARG	171	4.072	6.104	26.254	1.00	0.00
ATOM	2637	2HD	ARG	171	3.962	4.354	26.450	1.00	0.00
ATOM	2638	HE	ARG	171	5.381	5.389	28.630	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.775	5.005	25.171	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.505	4.936	25.253	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.629	5.311	28.748	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.576	5.118	27.295	1.00	0.00
ATOM	2643	N	THR	172	0.956	6.215	30.407	1.00	0.00
ATOM	2644	CA	THR	172	1.274	5.983	31.806	1.00	0.00
ATOM	2648	C	THR	172	0.012	5.873	32.653	1.00	0.00
ATOM	2649	O	THR	172	0.014	5.213	33.690	1.00	0.00
ATOM	2645	CB	THR	172	2.182	7.095	32.347	1.00	0.00
ATOM	2646	OG1	THR	172	3.079	7.523	31.312	1.00	0.00
ATOM	2647	CG2	THR	172	2.979	6.625	33.554	1.00	0.00
ATOM	2650	H	THR	172	0.924	7.135	30.071	1.00	0.00
ATOM	2651	HA	THR	172	1.804	5.049	31.876	1.00	0.00
ATOM	2652	HB	THR	172	1.563	7.925	32.642	1.00	0.00
ATOM	2653	HG1	THR	172	2.963	8.473	31.157	1.00	0.00
ATOM	2654	1HG2	THR	172	3.151	7.460	34.217	1.00	0.00
ATOM	2655	2HG2	THR	172	3.924	6.220	33.228	1.00	0.00
ATOM	2656	3HG2	THR	172	2.421	5.860	34.075	1.00	0.00
ATOM	2657	N	VAL	173	-1.071	6.489	32.198	1.00	0.00
ATOM	2658	CA	VAL	173	-2.331	6.418	32.927	1.00	0.00
ATOM	2662	C	VAL	173	-2.948	5.031	32.758	1.00	0.00
ATOM	2663	O	VAL	173	-3.750	4.583	33.576	1.00	0.00
ATOM	2659	CB	VAL	173	-3.320	7.524	32.480	1.00	0.00
ATOM	2660	CG1	VAL	173	-4.057	7.150	31.205	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.308	7.841	33.592	1.00	0.00
ATOM	2664	H	VAL	173	-1.030	6.985	31.355	1.00	0.00
ATOM	2665	HA	VAL	173	-2.109	6.567	33.975	1.00	0.00
ATOM	2666	HB	VAL	173	-2.747	8.414	32.279	1.00	0.00
ATOM	2667	1HG1	VAL	173	-3.708	6.189	30.855	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.870	7.899	30.448	1.00	0.00
ATOM	2669	3HG1	VAL	173	-5.117	7.097	31.404	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.284	7.466	33.324	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.359	8.911	33.735	1.00	0.00
ATOM	2672	3HG2	VAL	173	-3.981	7.371	34.507	1.00	0.00
ATOM	2673	N	LEU	174	-2.540	4.351	31.695	1.00	0.00
ATOM	2674	CA	LEU	174	-3.019	3.006	31.408	1.00	0.00
ATOM	2679	C	LEU	174	-1.853	2.031	31.370	1.00	0.00
ATOM	2680	O	LEU	174	-1.785	1.141	30.518	1.00	0.00
ATOM	2675	CB	LEU	174	-3.790	2.981	30.092	1.00	0.00
ATOM	2676	CG	LEU	174	-4.786	4.120	29.938	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.943	4.507	28.477	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.127	3.739	30.542	1.00	0.00
ATOM	2681	H	LEU	174	-1.888	4.765	31.094	1.00	0.00



ATOM	2682	HA	LEU	174	-3.684	2.717	32.210	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.328	2.047	30.027	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.080	3.030	29.278	1.00	0.00
ATOM	2685	HG	LEU	174	-4.407	4.978	30.476	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.528	5.412	28.405	1.00	0.00
ATOM	2687	2HD1	LEU	174	-5.444	3.710	27.945	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.968	4.673	28.041	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.800	3.425	29.757	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.547	4.592	31.055	1.00	0.00
ATOM	2691	3HD2	LEU	174	-5.989	2.929	31.242	1.00	0.00
ATOM	2692	N	THR	175	-0.929	2.219	32.299	1.00	0.00
ATOM	2693	CA	THR	175	0.256	1.374	32.402	1.00	0.00
ATOM	2697	C	THR	175	-0.109	-0.085	32.709	1.00	0.00
ATOM	2698	O	THR	175	0.675	-0.999	32.452	1.00	0.00
ATOM	2694	CB	THR	175	1.193	1.890	33.509	1.00	0.00
ATOM	2695	OG1	THR	175	0.451	2.704	34.430	1.00	0.00
ATOM	2696	CG2	THR	175	2.342	2.691	32.919	1.00	0.00
ATOM	2699	H	THR	175	-1.041	2.962	32.935	1.00	0.00
ATOM	2700	HA	THR	175	0.785	1.416	31.461	1.00	0.00
ATOM	2701	HB	THR	175	1.600	1.040	34.040	1.00	0.00
ATOM	2702	HG1	THR	175	0.596	3.640	34.230	1.00	0.00
ATOM	2703	1HG2	THR	175	2.063	3.732	32.861	1.00	0.00
ATOM	2704	2HG2	THR	175	2.567	2.323	31.929	1.00	0.00
ATOM	2705	3HG2	THR	175	3.214	2.586	33.548	1.00	0.00
ATOM	2706	N	GLY	176	-1.295	-0.293	33.274	1.00	0.00
ATOM	2707	CA	GLY	176	-1.737	-1.632	33.627	1.00	0.00
ATOM	2708	C	GLY	176	-2.356	-2.397	32.468	1.00	0.00
ATOM	2709	O	GLY	176	-2.921	-3.471	32.663	1.00	0.00
ATOM	2710	H	GLY	176	-1.873	0.477	33.470	1.00	0.00
ATOM	2711	1HA	GLY	176	-2.466	-1.557	34.421	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.888	-2.191	33.992	1.00	0.00
ATOM	2713	N	ALA	177	-2.246	-1.852	31.262	1.00	0.00
ATOM	2714	CA	ALA	177	-2.799	-2.498	30.071	1.00	0.00
ATOM	2716	C	ALA	177	-1.947	-3.682	29.623	1.00	0.00
ATOM	2717	O	ALA	177	-2.290	-4.378	28.671	1.00	0.00
ATOM	2715	CB	ALA	177	-2.929	-1.489	28.942	1.00	0.00
ATOM	2718	H	ALA	177	-1.781	-0.993	31.169	1.00	0.00
ATOM	2719	HA	ALA	177	-3.791	-2.857	30.312	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.625	-0.513	29.294	1.00	0.00
ATOM	2721	2HB	ALA	177	-3.956	-1.449	28.613	1.00	0.00
ATOM	2722	3HB	ALA	177	-2.297	-1.787	28.119	1.00	0.00
ATOM	2723	N	VAL	178	-0.840	-3.915	30.316	1.00	0.00
ATOM	2724	CA	VAL	178	0.049	-5.022	29.987	1.00	0.00
ATOM	2728	C	VAL	178	-0.431	-6.307	30.657	1.00	0.00
ATOM	2729	O	VAL	178	0.194	-6.813	31.589	1.00	0.00
ATOM	2725	CB	VAL	178	1.508	-4.738	30.408	1.00	0.00
ATOM	2726	CG1	VAL	178	2.474	-5.609	29.614	1.00	0.00
ATOM	2727	CG2	VAL	178	1.848	-3.265	30.229	1.00	0.00
ATOM	2730	H	VAL	178	-0.621	-3.335	31.071	1.00	0.00
ATOM	2731	HA	VAL	178	0.024	-5.159	28.916	1.00	0.00
ATOM	2732	HB	VAL	178	1.615	-4.985	31.453	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.467	-5.304	28.578	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.170	-6.643	29.688	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.471	-5.499	30.015	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.143	-2.846	31.179	1.00	0.00
ATOM	2737	2HG2	VAL	178	0.981	-2.738	29.856	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.659	-3.165	29.523	1.00	0.00
ATOM	2739	N	ALA	179	-1.554	-6.823	30.178	1.00	0.00
ATOM	2740	CA	ALA	179	-2.134	-8.045	30.723	1.00	0.00
ATOM	2742	C	ALA	179	-1.445	-9.279	30.154	1.00	0.00
ATOM	2743	O	ALA	179	-1.678	-10.397	30.611	1.00	0.00
ATOM	2741	CB	ALA	179	-3.629	-8.106	30.431	1.00	0.00
ATOM	2744	H	ALA	179	-2.009	-6.361	29.439	1.00	0.00
ATOM	2745	HA	ALA	179	-2.001	-8.030	31.796	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.166	-8.317	31.343	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.822	-8.889	29.710	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.956	-7.159	30.029	1.00	0.00
ATOM	2749	N	LEU	180	-0.603	-9.073	29.150	1.00	0.00
ATOM	2750	CA	LEU	180	0.109	-10.172	28.507	1.00	0.00
ATOM	2755	C	LEU	180	1.477	-10.392	29.141	1.00	0.00
ATOM	2756	O	LEU	180	2.441	-10.733	28.462	1.00	0.00
ATOM	2751	CB	LEU	180	0.275	-9.895	27.011	1.00	0.00
ATOM	2752	CG	LEU	180	-0.950	-10.154	26.123	1.00	0.00



ATOM	2753	CD1	LEU	180	-2.147	-10.631	26.934	1.00	0.00
ATOM	2754	CD2	LEU	180	-1.305	-8.902	25.340	1.00	0.00
ATOM	2757	H	LEU	180	-0.461	-8.160	28.825	1.00	0.00
ATOM	2758	HA	LEU	180	-0.481	-11.068	28.634	1.00	0.00
ATOM	2759	1HB	LEU	180	1.086	-10.510	26.647	1.00	0.00
ATOM	2760	2HB	LEU	180	0.558	-8.860	26.894	1.00	0.00
ATOM	2761	HG	LEU	180	-0.706	-10.930	25.411	1.00	0.00
ATOM	2762	1HD1	LEU	180	-2.064	-11.694	27.107	1.00	0.00
ATOM	2763	2HD1	LEU	180	-3.055	-10.425	26.389	1.00	0.00
ATOM	2764	3HD1	LEU	180	-2.170	-10.114	27.881	1.00	0.00
ATOM	2765	1HD2	LEU	180	-1.335	-8.056	26.010	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.273	-9.028	24.877	1.00	0.00
ATOM	2767	3HD2	LEU	180	-0.560	-8.732	24.576	1.00	0.00
ATOM	2768	N	GLY	181	1.556	-10.204	30.447	1.00	0.00
ATOM	2769	CA	GLY	181	2.810	-10.396	31.143	1.00	0.00
ATOM	2770	C	GLY	181	3.043	-11.848	31.512	1.00	0.00
ATOM	2771	O	GLY	181	2.879	-12.231	32.670	1.00	0.00
ATOM	2772	H	GLY	181	0.753	-9.941	30.943	1.00	0.00
ATOM	2773	1HA	GLY	181	2.804	-9.803	32.044	1.00	0.00
ATOM	2774	2HA	GLY	181	3.617	-10.062	30.507	1.00	0.00
ATOM	2775	N	ALA	182	3.421	-12.661	30.533	1.00	0.00
ATOM	2776	CA	ALA	182	3.674	-14.073	30.777	1.00	0.00
ATOM	2778	C	ALA	182	5.128	-14.414	30.483	1.00	0.00
ATOM	2779	O	ALA	182	5.763	-13.781	29.638	1.00	0.00
ATOM	2777	CB	ALA	182	2.743	-14.935	29.941	1.00	0.00
ATOM	2780	H	ALA	182	3.536	-12.302	29.624	1.00	0.00
ATOM	2781	HA	ALA	182	3.472	-14.272	31.819	1.00	0.00
ATOM	2782	1HB	ALA	182	2.631	-14.500	28.958	1.00	0.00
ATOM	2783	2HB	ALA	182	1.777	-14.990	30.420	1.00	0.00
ATOM	2784	3HB	ALA	182	3.157	-15.929	29.851	1.00	0.00
ATOM	2785	N	LEU	183	5.647	-15.413	31.180	1.00	0.00
ATOM	2790	CA	LEU	183	7.025	-15.842	30.999	1.00	0.00
ATOM	2791	C	LEU	183	7.093	-17.361	30.927	1.00	0.00
ATOM	2792	O	LEU	183	6.042	-18.009	31.121	1.00	0.00
ATOM	2786	CB	LEU	183	7.898	-15.338	32.154	1.00	0.00
ATOM	2787	CG	LEU	183	8.054	-13.818	32.249	1.00	0.00
ATOM	2788	CD1	LEU	183	7.581	-13.317	33.606	1.00	0.00
ATOM	2789	CD2	LEU	183	9.500	-13.417	32.008	1.00	0.00
ATOM	2793	OXT	LEU	183	8.192	-17.900	30.689	1.00	0.00
ATOM	2794	H	LEU	183	5.086	-15.883	31.836	1.00	0.00
ATOM	2795	HA	LEU	183	7.387	-15.427	30.071	1.00	0.00
ATOM	2796	1HB	LEU	183	8.882	-15.771	32.046	1.00	0.00
ATOM	2797	2HB	LEU	183	7.469	-15.692	33.080	1.00	0.00
ATOM	2798	HG	LEU	183	7.445	-13.351	31.489	1.00	0.00
ATOM	2799	1HD1	LEU	183	6.504	-13.371	33.655	1.00	0.00
ATOM	2800	2HD1	LEU	183	7.897	-12.293	33.742	1.00	0.00
ATOM	2801	3HD1	LEU	183	8.008	-13.931	34.385	1.00	0.00
ATOM	2802	1HD2	LEU	183	10.146	-14.253	32.229	1.00	0.00
ATOM	2803	2HD2	LEU	183	9.755	-12.587	32.650	1.00	0.00
ATOM	2804	3HD2	LEU	183	9.627	-13.127	30.976	1.00	0.00
ENDMDL									
MODEL					16				
ATOM	3	N	GLY	-4	5.766	13.677	-11.130	1.00	0.00
ATOM	4	CA	GLY	-4	4.389	13.718	-11.675	1.00	0.00
ATOM	1	C	GLY	-4	3.626	12.443	-11.384	1.00	0.00
ATOM	2	O	GLY	-4	3.948	11.390	-11.936	1.00	0.00
ATOM	5	1HA	GLY	-4	3.861	14.550	-11.233	1.00	0.00
ATOM	6	2HA	GLY	-4	4.439	13.861	-12.744	1.00	0.00
ATOM	7	1HT	GLY	-4	5.871	12.859	-10.488	1.00	0.00
ATOM	8	2HT	GLY	-4	5.969	14.549	-10.599	1.00	0.00
ATOM	9	3HT	GLY	-4	6.456	13.580	-11.907	1.00	0.00
ATOM	10	N	PRO	-3	2.610	12.502	-10.510	1.00	0.00
ATOM	11	CA	PRO	-3	1.804	11.331	-10.147	1.00	0.00
ATOM	15	C	PRO	-3	1.026	10.775	-11.334	1.00	0.00
ATOM	16	O	PRO	-3	0.434	11.529	-12.112	1.00	0.00
ATOM	12	CB	PRO	-3	0.839	11.865	-9.078	1.00	0.00
ATOM	13	CG	PRO	-3	1.442	13.147	-8.614	1.00	0.00
ATOM	14	CD	PRO	-3	2.165	13.710	-9.800	1.00	0.00
ATOM	17	HA	PRO	-3	2.417	10.548	-9.723	1.00	0.00
ATOM	18	1HB	PRO	-3	0.763	11.151	-8.272	1.00	0.00
ATOM	19	2HB	PRO	-3	-0.134	12.023	-9.518	1.00	0.00
ATOM	20	1HG	PRO	-3	2.135	12.957	-7.808	1.00	0.00
ATOM	21	2HG	PRO	-3	0.664	13.824	-8.291	1.00	0.00



ATOM	22	1HD	PRO	-3	3.008	14.306	-9.485	1.00	0.00
ATOM	23	2HD	PRO	-3	1.492	14.294	-10.413	1.00	0.00
ATOM	24	N	LEU	-2	1.031	9.459	-11.471	1.00	0.00
ATOM	25	CA	LEU	-2	0.329	8.803	-12.561	1.00	0.00
ATOM	30	C	LEU	-2	-0.878	8.038	-12.033	1.00	0.00
ATOM	31	O	LEU	-2	-0.955	7.728	-10.845	1.00	0.00
ATOM	26	CB	LEU	-2	1.270	7.857	-13.311	1.00	0.00
ATOM	27	CG	LEU	-2	2.380	8.548	-14.108	1.00	0.00
ATOM	28	CD1	LEU	-2	3.655	7.719	-14.078	1.00	0.00
ATOM	29	CD2	LEU	-2	1.933	8.791	-15.541	1.00	0.00
ATOM	32	H	LEU	-2	1.517	8.913	-10.819	1.00	0.00
ATOM	33	HA	LEU	-2	-0.015	9.568	-13.241	1.00	0.00
ATOM	34	1HB	LEU	-2	0.683	7.266	-13.997	1.00	0.00
ATOM	35	2HB	LEU	-2	1.730	7.195	-12.592	1.00	0.00
ATOM	36	HG	LEU	-2	2.594	9.506	-13.656	1.00	0.00
ATOM	37	1HD1	LEU	-2	3.423	6.692	-14.321	1.00	0.00
ATOM	38	2HD1	LEU	-2	4.091	7.765	-13.090	1.00	0.00
ATOM	39	3HD1	LEU	-2	4.357	8.111	-14.800	1.00	0.00
ATOM	40	1HD2	LEU	-2	0.865	8.646	-15.615	1.00	0.00
ATOM	41	2HD2	LEU	-2	2.436	8.099	-16.199	1.00	0.00
ATOM	42	3HD2	LEU	-2	2.178	9.804	-15.829	1.00	0.00
ATOM	43	N	GLY	-1	-1.813	7.744	-12.923	1.00	0.00
ATOM	44	CA	GLY	-1	-3.008	7.023	-12.538	1.00	0.00
ATOM	45	C	GLY	-1	-3.880	6.718	-13.736	1.00	0.00
ATOM	46	O	GLY	-1	-4.342	7.628	-14.426	1.00	0.00
ATOM	47	H	GLY	-1	-1.694	8.022	-13.854	1.00	0.00
ATOM	48	1HA	GLY	-1	-3.570	7.621	-11.838	1.00	0.00
ATOM	49	2HA	GLY	-1	-2.722	6.096	-12.063	1.00	0.00
ATOM	50	N	SER	0	-4.094	5.441	-13.995	1.00	0.00
ATOM	51	CA	SER	0	-4.905	5.016	-15.122	1.00	0.00
ATOM	54	C	SER	0	-6.326	4.689	-14.673	1.00	0.00
ATOM	55	O	SER	0	-6.642	3.532	-14.392	1.00	0.00
ATOM	52	CB	SER	0	-4.259	3.804	-15.792	1.00	0.00
ATOM	53	OG	SER	0	-2.871	3.742	-15.491	1.00	0.00
ATOM	56	H	SER	0	-3.689	4.759	-13.417	1.00	0.00
ATOM	57	HA	SER	0	-4.942	5.831	-15.830	1.00	0.00
ATOM	58	1HB	SER	0	-4.379	3.878	-16.864	1.00	0.00
ATOM	59	2HB	SER	0	-4.733	2.901	-15.438	1.00	0.00
ATOM	60	HG	SER	0	-2.658	2.860	-15.139	1.00	0.00
ATOM	61	N	MET	1	-7.161	5.732	-14.606	1.00	0.00
ATOM	62	CA	MET	1	-8.566	5.624	-14.191	1.00	0.00
ATOM	67	C	MET	1	-8.692	5.473	-12.677	1.00	0.00
ATOM	68	O	MET	1	-8.123	4.561	-12.080	1.00	0.00
ATOM	63	CB	MET	1	-9.277	4.458	-14.889	1.00	0.00
ATOM	64	CG	MET	1	-9.816	4.802	-16.264	1.00	0.00
ATOM	65	SD	MET	1	-10.737	3.440	-17.011	1.00	0.00
ATOM	66	CE	MET	1	-9.624	2.064	-16.710	1.00	0.00
ATOM	69	H	MET	1	-6.814	6.617	-14.841	1.00	0.00
ATOM	70	HA	MET	1	-9.056	6.544	-14.478	1.00	0.00
ATOM	71	1HB	MET	1	-10.104	4.136	-14.272	1.00	0.00
ATOM	72	2HB	MET	1	-8.580	3.640	-14.994	1.00	0.00
ATOM	73	1HG	MET	1	-8.986	5.053	-16.909	1.00	0.00
ATOM	74	2HG	MET	1	-10.472	5.656	-16.177	1.00	0.00
ATOM	75	1HE	MET	1	-9.011	2.279	-15.846	1.00	0.00
ATOM	76	2HE	MET	1	-8.992	1.917	-17.573	1.00	0.00
ATOM	77	3HE	MET	1	-10.200	1.169	-16.528	1.00	0.00
ATOM	78	N	ALA	2	-9.450	6.373	-12.066	1.00	0.00
ATOM	79	CA	ALA	2	-9.670	6.349	-10.627	1.00	0.00
ATOM	81	C	ALA	2	-11.091	6.794	-10.311	1.00	0.00
ATOM	82	O	ALA	2	-11.560	7.807	-10.838	1.00	0.00
ATOM	80	CB	ALA	2	-8.661	7.241	-9.917	1.00	0.00
ATOM	83	H	ALA	2	-9.882	7.073	-12.599	1.00	0.00
ATOM	84	HA	ALA	2	-9.532	5.335	-10.282	1.00	0.00
ATOM	85	1HB	ALA	2	-8.868	8.275	-10.151	1.00	0.00
ATOM	86	2HB	ALA	2	-7.664	6.990	-10.246	1.00	0.00
ATOM	87	3HB	ALA	2	-8.738	7.092	-8.850	1.00	0.00
ATOM	88	N	THR	3	-11.775	6.038	-9.467	1.00	0.00
ATOM	89	CA	THR	3	-13.141	6.351	-9.098	1.00	0.00
ATOM	93	C	THR	3	-13.192	7.055	-7.744	1.00	0.00
ATOM	94	O	THR	3	-12.473	6.690	-6.813	1.00	0.00
ATOM	90	CB	THR	3	-14.019	5.078	-9.057	1.00	0.00
ATOM	91	OG1	THR	3	-13.903	4.432	-7.783	1.00	0.00
ATOM	92	CG2	THR	3	-13.619	4.098	-10.153	1.00	0.00



ATOM	95	H	THR	3	-11.349	5.235	-9.083	1.00	0.00
ATOM	96	HA	THR	3	-13.544	7.016	-9.849	1.00	0.00
ATOM	97	HB	THR	3	-15.044	5.366	-9.212	1.00	0.00
ATOM	98	HG1	THR	3	-12.971	4.417	-7.514	1.00	0.00
ATOM	99	1HG2	THR	3	-12.701	3.602	-9.874	1.00	0.00
ATOM	100	2HG2	THR	3	-13.471	4.634	-11.079	1.00	0.00
ATOM	101	3HG2	THR	3	-14.400	3.365	-10.284	1.00	0.00
ATOM	102	N	PRO	4	-14.043	8.085	-7.614	1.00	0.00
ATOM	103	CA	PRO	4	-14.190	8.847	-6.381	1.00	0.00
ATOM	107	C	PRO	4	-15.182	8.199	-5.416	1.00	0.00
ATOM	108	O	PRO	4	-15.788	8.873	-4.582	1.00	0.00
ATOM	104	CB	PRO	4	-14.718	10.209	-6.861	1.00	0.00
ATOM	105	CG	PRO	4	-14.995	10.067	-8.331	1.00	0.00
ATOM	106	CD	PRO	4	-14.928	8.601	-8.657	1.00	0.00
ATOM	109	HA	PRO	4	-13.242	8.980	-5.882	1.00	0.00
ATOM	110	1HB	PRO	4	-13.971	10.966	-6.676	1.00	0.00
ATOM	111	2HB	PRO	4	-15.618	10.453	-6.317	1.00	0.00
ATOM	112	1HG	PRO	4	-14.250	10.609	-8.895	1.00	0.00
ATOM	113	2HG	PRO	4	-15.980	10.450	-8.553	1.00	0.00
ATOM	114	1HD	PRO	4	-14.501	8.448	-9.636	1.00	0.00
ATOM	115	2HD	PRO	4	-15.908	8.151	-8.593	1.00	0.00
ATOM	116	N	ALA	5	-15.348	6.890	-5.541	1.00	0.00
ATOM	117	CA	ALA	5	-16.267	6.153	-4.687	1.00	0.00
ATOM	119	C	ALA	5	-15.509	5.230	-3.739	1.00	0.00
ATOM	120	O	ALA	5	-16.088	4.668	-2.808	1.00	0.00
ATOM	118	CB	ALA	5	-17.249	5.355	-5.533	1.00	0.00
ATOM	121	H	ALA	5	-14.839	6.407	-6.227	1.00	0.00
ATOM	122	HA	ALA	5	-16.829	6.869	-4.106	1.00	0.00
ATOM	123	1HB	ALA	5	-17.620	5.975	-6.335	1.00	0.00
ATOM	124	2HB	ALA	5	-18.074	5.030	-4.917	1.00	0.00
ATOM	125	3HB	ALA	5	-16.748	4.492	-5.947	1.00	0.00
ATOM	126	N	SER	6	-14.215	5.077	-3.983	1.00	0.00
ATOM	127	CA	SER	6	-13.377	4.224	-3.157	1.00	0.00
ATOM	130	C	SER	6	-12.573	5.060	-2.167	1.00	0.00
ATOM	131	O	SER	6	-11.892	6.014	-2.551	1.00	0.00
ATOM	128	CB	SER	6	-12.438	3.408	-4.045	1.00	0.00
ATOM	129	OG	SER	6	-12.676	3.685	-5.416	1.00	0.00
ATOM	132	H	SER	6	-13.809	5.549	-4.739	1.00	0.00
ATOM	133	HA	SER	6	-14.021	3.551	-2.609	1.00	0.00
ATOM	134	1HB	SER	6	-12.600	2.353	-3.869	1.00	0.00
ATOM	135	2HB	SER	6	-11.413	3.659	-3.812	1.00	0.00
ATOM	136	HG	SER	6	-13.498	3.268	-5.690	1.00	0.00
ATOM	137	N	ALA	7	-12.655	4.703	-0.894	1.00	0.00
ATOM	138	CA	ALA	7	-11.937	5.417	0.149	1.00	0.00
ATOM	140	C	ALA	7	-11.253	4.437	1.095	1.00	0.00
ATOM	141	O	ALA	7	-11.865	3.465	1.541	1.00	0.00
ATOM	139	CB	ALA	7	-12.889	6.323	0.919	1.00	0.00
ATOM	142	H	ALA	7	-13.212	3.935	-0.648	1.00	0.00
ATOM	143	HA	ALA	7	-11.188	6.035	-0.323	1.00	0.00
ATOM	144	1HB	ALA	7	-12.344	7.172	1.308	1.00	0.00
ATOM	145	2HB	ALA	7	-13.327	5.771	1.738	1.00	0.00
ATOM	146	3HB	ALA	7	-13.671	6.669	0.259	1.00	0.00
ATOM	147	N	PRO	8	-9.971	4.677	1.410	1.00	0.00
ATOM	148	CA	PRO	8	-9.193	3.819	2.302	1.00	0.00
ATOM	152	C	PRO	8	-9.597	4.006	3.759	1.00	0.00
ATOM	153	O	PRO	8	-8.946	4.731	4.512	1.00	0.00
ATOM	149	CB	PRO	8	-7.739	4.272	2.086	1.00	0.00
ATOM	150	CG	PRO	8	-7.776	5.243	0.950	1.00	0.00
ATOM	151	CD	PRO	8	-9.168	5.802	0.920	1.00	0.00
ATOM	154	HA	PRO	8	-9.292	2.776	2.037	1.00	0.00
ATOM	155	1HB	PRO	8	-7.129	3.415	1.847	1.00	0.00
ATOM	156	2HB	PRO	8	-7.370	4.739	2.988	1.00	0.00
ATOM	157	1HG	PRO	8	-7.557	4.733	0.024	1.00	0.00
ATOM	158	2HG	PRO	8	-7.061	6.034	1.122	1.00	0.00
ATOM	159	1HD	PRO	8	-9.450	6.069	-0.088	1.00	0.00
ATOM	160	2HD	PRO	8	-9.251	6.654	1.580	1.00	0.00
ATOM	161	N	ASP	9	-10.686	3.354	4.145	1.00	0.00
ATOM	162	CA	ASP	9	-11.191	3.446	5.506	1.00	0.00
ATOM	167	C	ASP	9	-10.314	2.638	6.464	1.00	0.00
ATOM	168	O	ASP	9	-9.270	2.113	6.075	1.00	0.00
ATOM	163	CB	ASP	9	-12.641	2.956	5.575	1.00	0.00
ATOM	164	CG	ASP	9	-13.423	3.601	6.706	1.00	0.00
ATOM	165	OD1	ASP	9	-13.993	4.691	6.494	1.00	0.00



ATOM	166	OD2	ASP	9	-13.464	3.015	7.813	1.00	0.00
ATOM	169	H	ASP	9	-11.165	2.801	3.491	1.00	0.00
ATOM	170	HA	ASP	9	-11.158	4.485	5.799	1.00	0.00
ATOM	171	1HB	ASP	9	-12.645	1.886	5.723	1.00	0.00
ATOM	172	2HB	ASP	9	-13.137	3.187	4.644	1.00	0.00
ATOM	173	N	THR	10	-10.744	2.544	7.711	1.00	0.00
ATOM	174	CA	THR	10	-10.017	1.817	8.739	1.00	0.00
ATOM	178	C	THR	10	-9.768	0.362	8.351	1.00	0.00
ATOM	179	O	THR	10	-8.735	-0.199	8.699	1.00	0.00
ATOM	175	CB	THR	10	-10.776	1.871	10.079	1.00	0.00
ATOM	176	OG1	THR	10	-11.784	2.894	10.022	1.00	0.00
ATOM	177	CG2	THR	10	-9.825	2.158	11.232	1.00	0.00
ATOM	180	H	THR	10	-11.585	2.983	7.954	1.00	0.00
ATOM	181	HA	THR	10	-9.060	2.306	8.873	1.00	0.00
ATOM	182	HB	THR	10	-11.249	0.914	10.248	1.00	0.00
ATOM	183	HG1	THR	10	-12.490	2.629	9.413	1.00	0.00
ATOM	184	1HG2	THR	10	-10.220	1.727	12.140	1.00	0.00
ATOM	185	2HG2	THR	10	-9.722	3.227	11.356	1.00	0.00
ATOM	186	3HG2	THR	10	-8.858	1.726	11.019	1.00	0.00
ATOM	187	N	ARG	11	-10.703	-0.246	7.624	1.00	0.00
ATOM	188	CA	ARG	11	-10.543	-1.636	7.200	1.00	0.00
ATOM	196	C	ARG	11	-9.387	-1.761	6.215	1.00	0.00
ATOM	197	O	ARG	11	-8.663	-2.755	6.217	1.00	0.00
ATOM	189	CB	ARG	11	-11.853	-2.183	6.603	1.00	0.00
ATOM	190	CG	ARG	11	-11.986	-2.012	5.095	1.00	0.00
ATOM	191	CD	ARG	11	-13.140	-2.835	4.539	1.00	0.00
ATOM	192	NE	ARG	11	-12.765	-4.229	4.307	1.00	0.00
ATOM	193	CZ	ARG	11	-13.500	-5.088	3.597	1.00	0.00
ATOM	194	NH1	ARG	11	-14.634	-4.692	3.033	1.00	0.00
ATOM	195	NH2	ARG	11	-13.093	-6.344	3.450	1.00	0.00
ATOM	198	H	ARG	11	-11.508	0.250	7.365	1.00	0.00
ATOM	199	HA	ARG	11	-10.289	-2.214	8.076	1.00	0.00
ATOM	200	1HB	ARG	11	-12.682	-1.675	7.073	1.00	0.00
ATOM	201	2HB	ARG	11	-11.920	-3.236	6.826	1.00	0.00
ATOM	202	1HG	ARG	11	-11.068	-2.330	4.623	1.00	0.00
ATOM	203	2HG	ARG	11	-12.164	-0.971	4.876	1.00	0.00
ATOM	204	1HD	ARG	11	-13.459	-2.396	3.605	1.00	0.00
ATOM	205	2HD	ARG	11	-13.957	-2.806	5.245	1.00	0.00
ATOM	206	HE	ARG	11	-11.926	-4.543	4.712	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.945	-3.738	3.128	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.198	-5.347	2.515	1.00	0.00
ATOM	209	1HH2	ARG	11	-12.238	-6.650	3.874	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.636	-6.992	2.900	1.00	0.00
ATOM	211	N	ALA	12	-9.189	-0.732	5.409	1.00	0.00
ATOM	212	CA	ALA	12	-8.096	-0.731	4.464	1.00	0.00
ATOM	214	C	ALA	12	-6.808	-0.412	5.196	1.00	0.00
ATOM	215	O	ALA	12	-5.809	-1.097	5.036	1.00	0.00
ATOM	213	CB	ALA	12	-8.347	0.273	3.350	1.00	0.00
ATOM	216	H	ALA	12	-9.772	0.054	5.472	1.00	0.00
ATOM	217	HA	ALA	12	-8.024	-1.718	4.029	1.00	0.00
ATOM	218	1HB	ALA	12	-9.001	1.053	3.709	1.00	0.00
ATOM	219	2HB	ALA	12	-8.810	-0.227	2.512	1.00	0.00
ATOM	220	3HB	ALA	12	-7.409	0.705	3.038	1.00	0.00
ATOM	221	N	LEU	13	-6.854	0.628	6.023	1.00	0.00
ATOM	222	CA	LEU	13	-5.694	1.050	6.798	1.00	0.00
ATOM	227	C	LEU	13	-5.195	-0.064	7.721	1.00	0.00
ATOM	228	O	LEU	13	-3.987	-0.269	7.850	1.00	0.00
ATOM	223	CB	LEU	13	-6.030	2.313	7.596	1.00	0.00
ATOM	224	CG	LEU	13	-5.216	2.530	8.872	1.00	0.00
ATOM	225	CD1	LEU	13	-3.915	3.253	8.561	1.00	0.00
ATOM	226	CD2	LEU	13	-6.034	3.312	9.887	1.00	0.00
ATOM	229	H	LEU	13	-7.701	1.128	6.116	1.00	0.00
ATOM	230	HA	LEU	13	-4.907	1.286	6.097	1.00	0.00
ATOM	231	1HB	LEU	13	-7.075	2.275	7.866	1.00	0.00
ATOM	232	2HB	LEU	13	-5.874	3.166	6.951	1.00	0.00
ATOM	233	HG	LEU	13	-4.971	1.570	9.305	1.00	0.00
ATOM	234	1HD1	LEU	13	-4.129	4.266	8.253	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.398	2.737	7.765	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.292	3.270	9.443	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.710	4.342	9.894	1.00	0.00
ATOM	238	2HD2	LEU	13	-5.894	2.884	10.868	1.00	0.00
ATOM	239	3HD2	LEU	13	-7.079	3.265	9.619	1.00	0.00
ATOM	240	N	VAL	14	-6.116	-0.784	8.358	1.00	0.00



ATOM	241	CA	VAL	14	-5.729	-1.870	9.255	1.00	0.00
ATOM	245	C	VAL	14	-5.055	-2.992	8.468	1.00	0.00
ATOM	246	O	VAL	14	-4.033	-3.531	8.895	1.00	0.00
ATOM	242	CB	VAL	14	-6.926	-2.424	10.084	1.00	0.00
ATOM	243	CG1	VAL	14	-7.846	-3.306	9.253	1.00	0.00
ATOM	244	CG2	VAL	14	-6.419	-3.185	11.301	1.00	0.00
ATOM	247	H	VAL	14	-7.068	-0.582	8.223	1.00	0.00
ATOM	248	HA	VAL	14	-5.005	-1.465	9.948	1.00	0.00
ATOM	249	HB	VAL	14	-7.504	-1.583	10.438	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.390	-2.695	8.547	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.545	-3.812	9.903	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.258	-4.037	8.718	1.00	0.00
ATOM	253	1HG2	VAL	14	-7.089	-4.004	11.518	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.377	-2.520	12.151	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.431	-3.572	11.098	1.00	0.00
ATOM	256	N	ALA	15	-5.613	-3.323	7.304	1.00	0.00
ATOM	257	CA	ALA	15	-5.038	-4.361	6.461	1.00	0.00
ATOM	259	C	ALA	15	-3.709	-3.895	5.877	1.00	0.00
ATOM	260	O	ALA	15	-2.815	-4.700	5.614	1.00	0.00
ATOM	258	CB	ALA	15	-6.005	-4.739	5.350	1.00	0.00
ATOM	261	H	ALA	15	-6.426	-2.847	7.001	1.00	0.00
ATOM	262	HA	ALA	15	-4.866	-5.235	7.075	1.00	0.00
ATOM	263	1HB	ALA	15	-5.630	-5.604	4.824	1.00	0.00
ATOM	264	2HB	ALA	15	-6.103	-3.913	4.661	1.00	0.00
ATOM	265	3HB	ALA	15	-6.971	-4.968	5.776	1.00	0.00
ATOM	266	N	ASP	16	-3.599	-2.588	5.683	1.00	0.00
ATOM	267	CA	ASP	16	-2.406	-1.971	5.130	1.00	0.00
ATOM	272	C	ASP	16	-1.259	-2.004	6.129	1.00	0.00
ATOM	273	O	ASP	16	-0.192	-2.538	5.841	1.00	0.00
ATOM	268	CB	ASP	16	-2.708	-0.522	4.761	1.00	0.00
ATOM	269	CG	ASP	16	-3.323	-0.367	3.383	1.00	0.00
ATOM	270	OD1	ASP	16	-3.027	-1.184	2.494	1.00	0.00
ATOM	271	OD2	ASP	16	-4.101	0.599	3.189	1.00	0.00
ATOM	274	H	ASP	16	-4.356	-2.009	5.911	1.00	0.00
ATOM	275	HA	ASP	16	-2.123	-2.513	4.243	1.00	0.00
ATOM	276	1HB	ASP	16	-1.794	0.040	4.793	1.00	0.00
ATOM	277	2HB	ASP	16	-3.397	-0.112	5.484	1.00	0.00
ATOM	278	N	PHE	17	-1.487	-1.426	7.307	1.00	0.00
ATOM	279	CA	PHE	17	-0.471	-1.382	8.357	1.00	0.00
ATOM	287	C	PHE	17	-0.008	-2.779	8.735	1.00	0.00
ATOM	288	O	PHE	17	1.191	-3.065	8.736	1.00	0.00
ATOM	280	CB	PHE	17	-0.994	-0.660	9.601	1.00	0.00
ATOM	281	CG	PHE	17	0.105	-0.114	10.469	1.00	0.00
ATOM	282	CD1	PHE	17	1.107	0.682	9.935	1.00	0.00
ATOM	283	CD2	PHE	17	0.142	-0.414	11.821	1.00	0.00
ATOM	284	CE1	PHE	17	2.123	1.168	10.736	1.00	0.00
ATOM	285	CE2	PHE	17	1.154	0.071	12.626	1.00	0.00
ATOM	286	CZ	PHE	17	2.146	0.862	12.084	1.00	0.00
ATOM	289	H	PHE	17	-2.365	-1.015	7.471	1.00	0.00
ATOM	290	HA	PHE	17	0.376	-0.834	7.970	1.00	0.00
ATOM	291	1HB	PHE	17	-1.578	-1.349	10.194	1.00	0.00
ATOM	292	2HB	PHE	17	-1.619	0.166	9.294	1.00	0.00
ATOM	293	HD1	PHE	17	1.088	0.923	8.882	1.00	0.00
ATOM	294	HD2	PHE	17	-0.633	-1.034	12.247	1.00	0.00
ATOM	295	HE1	PHE	17	2.899	1.787	10.309	1.00	0.00
ATOM	296	HE2	PHE	17	1.169	-0.170	13.679	1.00	0.00
ATOM	297	HZ	PHE	17	2.939	1.242	12.713	1.00	0.00
ATOM	298	N	VAL	18	-0.958	-3.650	9.046	1.00	0.00
ATOM	299	CA	VAL	18	-0.640	-5.019	9.413	1.00	0.00
ATOM	303	C	VAL	18	0.014	-5.730	8.232	1.00	0.00
ATOM	304	O	VAL	18	1.003	-6.436	8.395	1.00	0.00
ATOM	300	CB	VAL	18	-1.904	-5.787	9.864	1.00	0.00
ATOM	301	CG1	VAL	18	-1.617	-7.270	10.038	1.00	0.00
ATOM	302	CG2	VAL	18	-2.454	-5.194	11.153	1.00	0.00
ATOM	305	H	VAL	18	-1.899	-3.364	9.019	1.00	0.00
ATOM	306	HA	VAL	18	0.063	-4.994	10.238	1.00	0.00
ATOM	307	HB	VAL	18	-2.657	-5.678	9.097	1.00	0.00
ATOM	308	1HG1	VAL	18	-2.281	-7.680	10.785	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.592	-7.403	10.355	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.773	-7.779	9.100	1.00	0.00
ATOM	311	1HG2	VAL	18	-3.037	-5.940	11.672	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.077	-4.344	10.920	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.633	-4.877	11.781	1.00	0.00



ATOM	314	N	GLY	19	-0.527	-5.514	7.040	1.00	0.00
ATOM	315	CA	GLY	19	0.032	-6.123	5.850	1.00	0.00
ATOM	316	C	GLY	19	1.468	-5.702	5.618	1.00	0.00
ATOM	317	O	GLY	19	2.323	-6.534	5.335	1.00	0.00
ATOM	318	H	GLY	19	-1.306	-4.920	6.964	1.00	0.00
ATOM	319	1HA	GLY	19	-0.560	-5.832	4.996	1.00	0.00
ATOM	320	2HA	GLY	19	-0.006	-7.198	5.955	1.00	0.00
ATOM	321	N	TYR	20	1.723	-4.409	5.740	1.00	0.00
ATOM	322	CA	TYR	20	3.056	-3.852	5.551	1.00	0.00
ATOM	331	C	TYR	20	4.012	-4.379	6.615	1.00	0.00
ATOM	332	O	TYR	20	5.155	-4.730	6.322	1.00	0.00
ATOM	323	CB	TYR	20	2.991	-2.323	5.615	1.00	0.00
ATOM	324	CG	TYR	20	4.301	-1.636	5.312	1.00	0.00
ATOM	325	CD1	TYR	20	4.855	-1.690	4.042	1.00	0.00
ATOM	326	CD2	TYR	20	4.982	-0.935	6.299	1.00	0.00
ATOM	327	CE1	TYR	20	6.053	-1.065	3.760	1.00	0.00
ATOM	328	CE2	TYR	20	6.181	-0.307	6.025	1.00	0.00
ATOM	329	CZ	TYR	20	6.712	-0.376	4.755	1.00	0.00
ATOM	330	OH	TYR	20	7.906	0.247	4.480	1.00	0.00
ATOM	333	H	TYR	20	0.983	-3.799	5.962	1.00	0.00
ATOM	334	HA	TYR	20	3.410	-4.150	4.577	1.00	0.00
ATOM	335	1HB	TYR	20	2.682	-2.026	6.608	1.00	0.00
ATOM	336	2HB	TYR	20	2.262	-1.972	4.900	1.00	0.00
ATOM	337	HD1	TYR	20	4.336	-2.231	3.265	1.00	0.00
ATOM	338	HD2	TYR	20	4.564	-0.884	7.292	1.00	0.00
ATOM	339	HE1	TYR	20	6.469	-1.118	2.765	1.00	0.00
ATOM	340	HE2	TYR	20	6.698	0.234	6.804	1.00	0.00
ATOM	341	HH	TYR	20	8.186	0.015	3.576	1.00	0.00
ATOM	342	N	LYS	21	3.527	-4.432	7.847	1.00	0.00
ATOM	343	CA	LYS	21	4.312	-4.913	8.974	1.00	0.00
ATOM	349	C	LYS	21	4.640	-6.394	8.805	1.00	0.00
ATOM	350	O	LYS	21	5.757	-6.829	9.080	1.00	0.00
ATOM	344	CB	LYS	21	3.542	-4.684	10.281	1.00	0.00
ATOM	345	CG	LYS	21	4.138	-3.609	11.187	1.00	0.00
ATOM	346	CD	LYS	21	5.641	-3.448	10.995	1.00	0.00
ATOM	347	CE	LYS	21	6.071	-1.997	11.166	1.00	0.00
ATOM	348	NZ	LYS	21	7.519	-1.874	11.487	1.00	0.00
ATOM	351	H	LYS	21	2.604	-4.138	8.003	1.00	0.00
ATOM	352	HA	LYS	21	5.233	-4.353	9.003	1.00	0.00
ATOM	353	1HB	LYS	21	3.504	-5.611	10.832	1.00	0.00
ATOM	354	2HB	LYS	21	2.533	-4.388	10.034	1.00	0.00
ATOM	355	1HG	LYS	21	3.943	-3.877	12.215	1.00	0.00
ATOM	356	2HG	LYS	21	3.660	-2.667	10.967	1.00	0.00
ATOM	357	1HD	LYS	21	5.906	-3.779	10.002	1.00	0.00
ATOM	358	2HD	LYS	21	6.154	-4.052	11.728	1.00	0.00
ATOM	359	1HE	LYS	21	5.494	-1.557	11.966	1.00	0.00
ATOM	360	2HE	LYS	21	5.871	-1.466	10.247	1.00	0.00
ATOM	361	1HZ	LYS	21	7.863	-0.928	11.236	1.00	0.00
ATOM	362	2HZ	LYS	21	8.067	-2.582	10.958	1.00	0.00
ATOM	363	3HZ	LYS	21	7.674	-2.024	12.516	1.00	0.00
ATOM	364	N	LEU	22	3.657	-7.158	8.343	1.00	0.00
ATOM	365	CA	LEU	22	3.833	-8.588	8.126	1.00	0.00
ATOM	370	C	LEU	22	4.730	-8.819	6.918	1.00	0.00
ATOM	371	O	LEU	22	5.630	-9.649	6.958	1.00	0.00
ATOM	366	CB	LEU	22	2.479	-9.280	7.919	1.00	0.00
ATOM	367	CG	LEU	22	1.785	-9.786	9.191	1.00	0.00
ATOM	368	CD1	LEU	22	1.754	-8.706	10.260	1.00	0.00
ATOM	369	CD2	LEU	22	0.376	-10.247	8.866	1.00	0.00
ATOM	372	H	LEU	22	2.786	-6.747	8.140	1.00	0.00
ATOM	373	HA	LEU	22	4.312	-9.002	9.003	1.00	0.00
ATOM	374	1HB	LEU	22	2.631	-10.124	7.263	1.00	0.00
ATOM	375	2HB	LEU	22	1.816	-8.582	7.428	1.00	0.00
ATOM	376	HG	LEU	22	2.328	-10.630	9.591	1.00	0.00
ATOM	377	1HD1	LEU	22	2.550	-8.879	10.968	1.00	0.00
ATOM	378	2HD1	LEU	22	0.803	-8.734	10.772	1.00	0.00
ATOM	379	3HD1	LEU	22	1.886	-7.739	9.798	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.224	-10.236	9.765	1.00	0.00
ATOM	381	2HD2	LEU	22	0.408	-11.250	8.466	1.00	0.00
ATOM	382	3HD2	LEU	22	-0.061	-9.582	8.135	1.00	0.00
ATOM	383	N	ARG	23	4.488	-8.059	5.853	1.00	0.00
ATOM	384	CA	ARG	23	5.280	-8.159	4.630	1.00	0.00
ATOM	392	C	ARG	23	6.733	-7.777	4.912	1.00	0.00
ATOM	393	O	ARG	23	7.638	-8.130	4.157	1.00	0.00



ATOM	385	CB	ARG	23	4.695	-7.244	3.544	1.00	0.00
ATOM	386	CG	ARG	23	3.920	-7.970	2.463	1.00	0.00
ATOM	387	CD	ARG	23	3.684	-7.063	1.261	1.00	0.00
ATOM	388	NE	ARG	23	4.800	-6.142	1.039	1.00	0.00
ATOM	389	CZ	ARG	23	5.381	-5.931	-0.142	1.00	0.00
ATOM	390	NH1	ARG	23	4.905	-6.502	-1.241	1.00	0.00
ATOM	391	NH2	ARG	23	6.428	-5.122	-0.221	1.00	0.00
ATOM	394	H	ARG	23	3.758	-7.400	5.894	1.00	0.00
ATOM	395	HA	ARG	23	5.246	-9.184	4.290	1.00	0.00
ATOM	396	1HB	ARG	23	5.498	-6.708	3.068	1.00	0.00
ATOM	397	2HB	ARG	23	4.030	-6.533	4.009	1.00	0.00
ATOM	398	1HG	ARG	23	2.966	-8.281	2.863	1.00	0.00
ATOM	399	2HG	ARG	23	4.483	-8.836	2.148	1.00	0.00
ATOM	400	1HD	ARG	23	2.779	-6.490	1.427	1.00	0.00
ATOM	401	2HD	ARG	23	3.561	-7.678	0.382	1.00	0.00
ATOM	402	HE	ARG	23	5.155	-5.663	1.828	1.00	0.00
ATOM	403	1HH1	ARG	23	4.105	-7.094	-1.194	1.00	0.00
ATOM	404	2HH1	ARG	23	5.355	-6.341	-2.136	1.00	0.00
ATOM	405	1HH2	ARG	23	6.774	-4.667	0.605	1.00	0.00
ATOM	406	2HH2	ARG	23	6.893	-4.971	-1.106	1.00	0.00
ATOM	407	N	GLN	24	6.937	-7.055	6.012	1.00	0.00
ATOM	408	CA	GLN	24	8.263	-6.617	6.425	1.00	0.00
ATOM	414	C	GLN	24	9.026	-7.753	7.104	1.00	0.00
ATOM	415	O	GLN	24	10.222	-7.939	6.865	1.00	0.00
ATOM	409	CB	GLN	24	8.150	-5.437	7.396	1.00	0.00
ATOM	410	CG	GLN	24	8.937	-4.203	6.976	1.00	0.00
ATOM	411	CD	GLN	24	9.197	-3.249	8.136	1.00	0.00
ATOM	412	OE1	GLN	24	8.468	-3.240	9.130	1.00	0.00
ATOM	413	NE2	GLN	24	10.240	-2.437	8.021	1.00	0.00
ATOM	416	H	GLN	24	6.164	-6.807	6.566	1.00	0.00
ATOM	417	HA	GLN	24	8.805	-6.302	5.544	1.00	0.00
ATOM	418	1HB	GLN	24	8.509	-5.752	8.365	1.00	0.00
ATOM	419	2HB	GLN	24	7.110	-5.159	7.483	1.00	0.00
ATOM	420	1HG	GLN	24	8.374	-3.681	6.217	1.00	0.00
ATOM	421	2HG	GLN	24	9.886	-4.517	6.569	1.00	0.00
ATOM	422	1HE2	GLN	24	10.789	-2.491	7.202	1.00	0.00
ATOM	423	2HE2	GLN	24	10.423	-1.812	8.754	1.00	0.00
ATOM	424	N	LYS	25	8.335	-8.503	7.964	1.00	0.00
ATOM	425	CA	LYS	25	8.963	-9.602	8.688	1.00	0.00
ATOM	431	C	LYS	25	7.948	-10.674	9.085	1.00	0.00
ATOM	432	O	LYS	25	7.497	-10.727	10.231	1.00	0.00
ATOM	426	CB	LYS	25	9.687	-9.079	9.941	1.00	0.00
ATOM	427	CG	LYS	25	9.001	-7.899	10.619	1.00	0.00
ATOM	428	CD	LYS	25	9.637	-7.591	11.966	1.00	0.00
ATOM	429	CE	LYS	25	9.093	-6.301	12.564	1.00	0.00
ATOM	430	NZ	LYS	25	10.070	-5.655	13.482	1.00	0.00
ATOM	433	H	LYS	25	7.385	-8.305	8.121	1.00	0.00
ATOM	434	HA	LYS	25	9.693	-10.050	8.033	1.00	0.00
ATOM	435	1HB	LYS	25	10.684	-8.772	9.661	1.00	0.00
ATOM	436	2HB	LYS	25	9.759	-9.881	10.660	1.00	0.00
ATOM	437	1HG	LYS	25	7.958	-8.136	10.769	1.00	0.00
ATOM	438	2HG	LYS	25	9.088	-7.031	9.983	1.00	0.00
ATOM	439	1HD	LYS	25	10.705	-7.494	11.835	1.00	0.00
ATOM	440	2HD	LYS	25	9.429	-8.405	12.643	1.00	0.00
ATOM	441	1HE	LYS	25	8.190	-6.527	13.114	1.00	0.00
ATOM	442	2HE	LYS	25	8.863	-5.617	11.761	1.00	0.00
ATOM	443	1HZ	LYS	25	9.839	-4.642	13.611	1.00	0.00
ATOM	444	2HZ	LYS	25	11.035	-5.732	13.091	1.00	0.00
ATOM	445	3HZ	LYS	25	10.057	-6.123	14.415	1.00	0.00
ATOM	446	N	GLY	26	7.598	-11.533	8.136	1.00	0.00
ATOM	447	CA	GLY	26	6.653	-12.596	8.418	1.00	0.00
ATOM	448	C	GLY	26	5.928	-13.081	7.183	1.00	0.00
ATOM	449	O	GLY	26	6.103	-14.219	6.750	1.00	0.00
ATOM	450	H	GLY	26	7.989	-11.447	7.243	1.00	0.00
ATOM	451	1HA	GLY	26	5.925	-12.233	9.128	1.00	0.00
ATOM	452	2HA	GLY	26	7.181	-13.426	8.857	1.00	0.00
ATOM	453	N	TYR	27	5.123	-12.210	6.612	1.00	0.00
ATOM	454	CA	TYR	27	4.361	-12.532	5.416	1.00	0.00
ATOM	463	C	TYR	27	5.060	-11.976	4.182	1.00	0.00
ATOM	464	O	TYR	27	4.510	-11.151	3.453	1.00	0.00
ATOM	455	CB	TYR	27	2.941	-11.970	5.525	1.00	0.00
ATOM	456	CG	TYR	27	1.907	-12.761	4.752	1.00	0.00
ATOM	457	CD1	TYR	27	2.075	-14.121	4.516	1.00	0.00



ATOM	458	CD2	TYR	27	0.763	-12.147	4.259	1.00	0.00
ATOM	459	CE1	TYR	27	1.133	-14.844	3.811	1.00	0.00
ATOM	460	CE2	TYR	27	-0.184	-12.863	3.552	1.00	0.00
ATOM	461	CZ	TYR	27	0.005	-14.211	3.330	1.00	0.00
ATOM	462	OH	TYR	27	-0.934	-14.928	2.624	1.00	0.00
ATOM	465	H	TYR	27	5.046	-11.309	7.003	1.00	0.00
ATOM	466	HA	TYR	27	4.309	-13.608	5.333	1.00	0.00
ATOM	467	1HB	TYR	27	2.934	-10.957	5.150	1.00	0.00
ATOM	468	2HB	TYR	27	2.644	-11.964	6.564	1.00	0.00
ATOM	469	HD1	TYR	27	0.617	-11.091	4.434	1.00	0.00
ATOM	470	HD2	TYR	27	2.958	-14.614	4.893	1.00	0.00
ATOM	471	HE1	TYR	27	-1.066	-12.367	3.176	1.00	0.00
ATOM	472	HE2	TYR	27	1.281	-15.899	3.637	1.00	0.00
ATOM	473	HH	TYR	27	-0.705	-15.874	2.650	1.00	0.00
ATOM	474	N	VAL	28	6.281	-12.433	3.961	1.00	0.00
ATOM	475	CA	VAL	28	7.068	-11.983	2.825	1.00	0.00
ATOM	479	C	VAL	28	6.634	-12.705	1.549	1.00	0.00
ATOM	480	O	VAL	28	6.793	-12.188	0.442	1.00	0.00
ATOM	476	CB	VAL	28	8.583	-12.180	3.079	1.00	0.00
ATOM	477	CG1	VAL	28	9.030	-13.602	2.761	1.00	0.00
ATOM	478	CG2	VAL	28	9.388	-11.169	2.282	1.00	0.00
ATOM	481	H	VAL	28	6.665	-13.087	4.583	1.00	0.00
ATOM	482	HA	VAL	28	6.884	-10.925	2.699	1.00	0.00
ATOM	483	HB	VAL	28	8.771	-12.000	4.128	1.00	0.00
ATOM	484	1HG1	VAL	28	9.900	-13.572	2.120	1.00	0.00
ATOM	485	2HG1	VAL	28	8.231	-14.126	2.260	1.00	0.00
ATOM	486	3HG1	VAL	28	9.278	-14.115	3.679	1.00	0.00
ATOM	487	1HG2	VAL	28	10.263	-11.650	1.869	1.00	0.00
ATOM	488	2HG2	VAL	28	9.694	-10.362	2.930	1.00	0.00
ATOM	489	3HG2	VAL	28	8.780	-10.777	1.480	1.00	0.00
ATOM	490	N	CYS	29	6.063	-13.894	1.719	1.00	0.00
ATOM	491	CA	CYS	29	5.581	-14.688	0.599	1.00	0.00
ATOM	494	C	CYS	29	4.286	-14.091	0.070	1.00	0.00
ATOM	495	O	CYS	29	4.074	-13.993	-1.138	1.00	0.00
ATOM	492	CB	CYS	29	5.350	-16.129	1.049	1.00	0.00
ATOM	493	SG	CYS	29	5.456	-16.356	2.841	1.00	0.00
ATOM	496	H	CYS	29	5.952	-14.242	2.629	1.00	0.00
ATOM	497	HA	CYS	29	6.330	-14.668	-0.180	1.00	0.00
ATOM	498	1HB	CYS	29	6.093	-16.763	0.591	1.00	0.00
ATOM	499	2HB	CYS	29	4.368	-16.446	0.734	1.00	0.00
ATOM	500	HG	CYS	29	5.642	-17.649	3.080	1.00	0.00
ATOM	501	N	GLY	30	3.438	-13.669	0.998	1.00	0.00
ATOM	502	CA	GLY	30	2.175	-13.056	0.644	1.00	0.00
ATOM	503	C	GLY	30	2.325	-11.567	0.437	1.00	0.00
ATOM	504	O	GLY	30	1.699	-10.760	1.126	1.00	0.00
ATOM	505	H	GLY	30	3.683	-13.763	1.940	1.00	0.00
ATOM	506	1HA	GLY	30	1.467	-13.228	1.435	1.00	0.00
ATOM	507	2HA	GLY	30	1.805	-13.505	-0.266	1.00	0.00
ATOM	508	N	ALA	31	3.167	-11.211	-0.512	1.00	0.00
ATOM	509	CA	ALA	31	3.427	-9.822	-0.837	1.00	0.00
ATOM	511	C	ALA	31	2.212	-9.195	-1.502	1.00	0.00
ATOM	512	O	ALA	31	1.812	-9.609	-2.587	1.00	0.00
ATOM	510	CB	ALA	31	4.645	-9.718	-1.742	1.00	0.00
ATOM	513	H	ALA	31	3.629	-11.914	-1.015	1.00	0.00
ATOM	514	HA	ALA	31	3.640	-9.294	0.083	1.00	0.00
ATOM	515	1HB	ALA	31	5.331	-10.521	-1.516	1.00	0.00
ATOM	516	2HB	ALA	31	5.135	-8.770	-1.581	1.00	0.00
ATOM	517	3HB	ALA	31	4.333	-9.791	-2.774	1.00	0.00
ATOM	518	N	GLY	32	1.617	-8.204	-0.849	1.00	0.00
ATOM	519	CA	GLY	32	0.442	-7.568	-1.419	1.00	0.00
ATOM	520	C	GLY	32	-0.211	-6.561	-0.491	1.00	0.00
ATOM	521	O	GLY	32	-0.352	-5.399	-0.854	1.00	0.00
ATOM	522	H	GLY	32	1.968	-7.909	0.024	1.00	0.00
ATOM	523	1HA	GLY	32	-0.279	-8.332	-1.667	1.00	0.00
ATOM	524	2HA	GLY	32	0.734	-7.059	-2.327	1.00	0.00
ATOM	525	N	PRO	33	-0.628	-6.969	0.724	1.00	0.00
ATOM	526	CA	PRO	33	-1.279	-6.059	1.679	1.00	0.00
ATOM	530	C	PRO	33	-0.397	-4.859	2.005	1.00	0.00
ATOM	531	O	PRO	33	-0.846	-3.718	1.996	1.00	0.00
ATOM	527	CB	PRO	33	-1.491	-6.937	2.918	1.00	0.00
ATOM	528	CG	PRO	33	-1.497	-8.332	2.396	1.00	0.00
ATOM	529	CD	PRO	33	-0.513	-8.334	1.266	1.00	0.00
ATOM	532	HA	PRO	33	-2.233	-5.716	1.307	1.00	0.00



ATOM	533	1HB	PRO	33	-2.429	-6.686	3.385	1.00	0.00
ATOM	534	2HB	PRO	33	-0.682	-6.780	3.616	1.00	0.00
ATOM	535	1HG	PRO	33	-2.483	-8.588	2.037	1.00	0.00
ATOM	536	2HG	PRO	33	-1.186	-9.019	3.171	1.00	0.00
ATOM	537	1HD	PRO	33	-0.779	-9.065	0.525	1.00	0.00
ATOM	538	2HD	PRO	33	0.485	-8.518	1.637	1.00	0.00
ATOM	539	N	GLY	34	0.869	-5.134	2.272	1.00	0.00
ATOM	540	CA	GLY	34	1.808	-4.079	2.581	1.00	0.00
ATOM	541	C	GLY	34	2.598	-3.632	1.371	1.00	0.00
ATOM	542	O	GLY	34	3.749	-3.224	1.498	1.00	0.00
ATOM	543	H	GLY	34	1.167	-6.061	2.251	1.00	0.00
ATOM	544	1HA	GLY	34	2.497	-4.438	3.332	1.00	0.00
ATOM	545	2HA	GLY	34	1.268	-3.233	2.980	1.00	0.00
ATOM	546	N	GLU	35	1.991	-3.712	0.192	1.00	0.00
ATOM	547	CA	GLU	35	2.673	-3.299	-1.026	1.00	0.00
ATOM	553	C	GLU	35	2.600	-1.776	-1.173	1.00	0.00
ATOM	554	O	GLU	35	3.437	-1.161	-1.835	1.00	0.00
ATOM	548	CB	GLU	35	2.086	-4.006	-2.264	1.00	0.00
ATOM	549	CG	GLU	35	0.952	-3.252	-2.957	1.00	0.00
ATOM	550	CD	GLU	35	0.831	-3.594	-4.432	1.00	0.00
ATOM	551	OE1	GLU	35	0.333	-4.700	-4.757	1.00	0.00
ATOM	552	OE2	GLU	35	1.229	-2.764	-5.279	1.00	0.00
ATOM	555	H	GLU	35	1.070	-4.050	0.142	1.00	0.00
ATOM	556	HA	GLU	35	3.710	-3.588	-0.920	1.00	0.00
ATOM	557	1HB	GLU	35	1.710	-4.972	-1.961	1.00	0.00
ATOM	558	2HB	GLU	35	2.877	-4.151	-2.983	1.00	0.00
ATOM	559	1HG	GLU	35	1.133	-2.190	-2.862	1.00	0.00
ATOM	560	2HG	GLU	35	0.022	-3.502	-2.470	1.00	0.00
ATOM	561	N	GLY	36	1.594	-1.178	-0.537	1.00	0.00
ATOM	562	CA	GLY	36	1.424	0.261	-0.595	1.00	0.00
ATOM	563	C	GLY	36	2.151	0.978	0.527	1.00	0.00
ATOM	564	O	GLY	36	2.103	0.547	1.680	1.00	0.00
ATOM	565	H	GLY	36	0.967	-1.720	-0.014	1.00	0.00
ATOM	566	1HA	GLY	36	0.371	0.490	-0.532	1.00	0.00
ATOM	567	2HA	GLY	36	1.804	0.619	-1.541	1.00	0.00
ATOM	568	N	PRO	37	2.851	2.082	0.213	1.00	0.00
ATOM	569	CA	PRO	37	3.603	2.851	1.197	1.00	0.00
ATOM	573	C	PRO	37	2.770	3.951	1.866	1.00	0.00
ATOM	574	O	PRO	37	1.607	3.750	2.213	1.00	0.00
ATOM	570	CB	PRO	37	4.715	3.456	0.344	1.00	0.00
ATOM	571	CG	PRO	37	4.087	3.680	-0.992	1.00	0.00
ATOM	572	CD	PRO	37	2.981	2.656	-1.138	1.00	0.00
ATOM	575	HA	PRO	37	4.034	2.214	1.955	1.00	0.00
ATOM	576	1HB	PRO	37	5.541	2.764	0.278	1.00	0.00
ATOM	577	2HB	PRO	37	5.049	4.382	0.787	1.00	0.00
ATOM	578	1HG	PRO	37	4.825	3.547	-1.768	1.00	0.00
ATOM	579	2HG	PRO	37	3.677	4.679	-1.037	1.00	0.00
ATOM	580	1HD	PRO	37	3.263	1.897	-1.853	1.00	0.00
ATOM	581	2HD	PRO	37	2.062	3.135	-1.439	1.00	0.00
ATOM	582	N	ALA	38	3.377	5.115	2.049	1.00	0.00
ATOM	583	CA	ALA	38	2.710	6.248	2.675	1.00	0.00
ATOM	585	C	ALA	38	2.151	7.193	1.622	1.00	0.00
ATOM	586	O	ALA	38	2.864	8.059	1.120	1.00	0.00
ATOM	584	CB	ALA	38	3.691	6.981	3.576	1.00	0.00
ATOM	587	H	ALA	38	4.304	5.218	1.751	1.00	0.00
ATOM	588	HA	ALA	38	1.898	5.879	3.289	1.00	0.00
ATOM	589	1HB	ALA	38	4.505	6.320	3.835	1.00	0.00
ATOM	590	2HB	ALA	38	3.184	7.299	4.476	1.00	0.00
ATOM	591	3HB	ALA	38	4.080	7.845	3.057	1.00	0.00
ATOM	592	N	ALA	39	0.883	7.015	1.277	1.00	0.00
ATOM	593	CA	ALA	39	0.249	7.856	0.267	1.00	0.00
ATOM	595	C	ALA	39	-1.170	8.224	0.681	1.00	0.00
ATOM	596	O	ALA	39	-2.006	8.565	-0.157	1.00	0.00
ATOM	594	CB	ALA	39	0.240	7.139	-1.076	1.00	0.00
ATOM	597	H	ALA	39	0.360	6.298	1.698	1.00	0.00
ATOM	598	HA	ALA	39	0.833	8.759	0.166	1.00	0.00
ATOM	599	1HB	ALA	39	-0.509	7.583	-1.716	1.00	0.00
ATOM	600	2HB	ALA	39	0.011	6.095	-0.923	1.00	0.00
ATOM	601	3HB	ALA	39	1.212	7.230	-1.539	1.00	0.00
ATOM	602	N	ASP	40	-1.435	8.142	1.977	1.00	0.00
ATOM	603	CA	ASP	40	-2.751	8.448	2.509	1.00	0.00
ATOM	608	C	ASP	40	-2.644	9.361	3.718	1.00	0.00
ATOM	609	O	ASP	40	-1.596	9.419	4.371	1.00	0.00



ATOM	604	CB	ASP	40	-3.474	7.164	2.919	1.00	0.00
ATOM	605	CG	ASP	40	-3.531	6.137	1.811	1.00	0.00
ATOM	606	OD1	ASP	40	-2.568	5.349	1.691	1.00	0.00
ATOM	607	OD2	ASP	40	-4.532	6.118	1.070	1.00	0.00
ATOM	610	H	ASP	40	-0.734	7.864	2.588	1.00	0.00
ATOM	611	HA	ASP	40	-3.320	8.945	1.738	1.00	0.00
ATOM	612	1HB	ASP	40	-4.481	7.415	3.209	1.00	0.00
ATOM	613	2HB	ASP	40	-2.961	6.725	3.762	1.00	0.00
ATOM	614	N	PRO	41	-3.740	10.055	4.056	1.00	0.00
ATOM	615	CA	PRO	41	-3.799	10.954	5.204	1.00	0.00
ATOM	619	C	PRO	41	-4.008	10.189	6.510	1.00	0.00
ATOM	620	O	PRO	41	-4.906	10.498	7.293	1.00	0.00
ATOM	616	CB	PRO	41	-4.992	11.855	4.886	1.00	0.00
ATOM	617	CG	PRO	41	-5.880	11.049	3.994	1.00	0.00
ATOM	618	CD	PRO	41	-5.028	9.985	3.345	1.00	0.00
ATOM	621	HA	PRO	41	-2.901	11.550	5.281	1.00	0.00
ATOM	622	1HB	PRO	41	-4.645	12.748	4.390	1.00	0.00
ATOM	623	2HB	PRO	41	-5.494	12.122	5.804	1.00	0.00
ATOM	624	1HG	PRO	41	-6.311	11.690	3.238	1.00	0.00
ATOM	625	2HG	PRO	41	-6.662	10.588	4.578	1.00	0.00
ATOM	626	1HD	PRO	41	-4.893	10.190	2.294	1.00	0.00
ATOM	627	2HD	PRO	41	-5.478	9.013	3.477	1.00	0.00
ATOM	628	N	LEU	42	-3.153	9.192	6.718	1.00	0.00
ATOM	629	CA	LEU	42	-3.174	8.343	7.908	1.00	0.00
ATOM	634	C	LEU	42	-2.072	7.303	7.795	1.00	0.00
ATOM	635	O	LEU	42	-1.473	6.894	8.786	1.00	0.00
ATOM	630	CB	LEU	42	-4.530	7.637	8.096	1.00	0.00
ATOM	631	CG	LEU	42	-5.301	7.315	6.807	1.00	0.00
ATOM	632	CD1	LEU	42	-5.109	5.861	6.412	1.00	0.00
ATOM	633	CD2	LEU	42	-6.781	7.626	6.982	1.00	0.00
ATOM	636	H	LEU	42	-2.465	9.027	6.039	1.00	0.00
ATOM	637	HA	LEU	42	-2.968	8.969	8.766	1.00	0.00
ATOM	638	1HB	LEU	42	-5.154	8.265	8.714	1.00	0.00
ATOM	639	2HB	LEU	42	-4.352	6.711	8.623	1.00	0.00
ATOM	640	HG	LEU	42	-4.922	7.932	6.006	1.00	0.00
ATOM	641	1HD1	LEU	42	-4.936	5.267	7.297	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.260	5.778	5.749	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.996	5.504	5.908	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.330	7.250	6.131	1.00	0.00
ATOM	645	2HD2	LEU	42	-6.919	8.695	7.055	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.145	7.154	7.882	1.00	0.00
ATOM	647	N	HIS	43	-1.818	6.884	6.562	1.00	0.00
ATOM	648	CA	HIS	43	-0.793	5.890	6.266	1.00	0.00
ATOM	655	C	HIS	43	0.574	6.363	6.737	1.00	0.00
ATOM	656	O	HIS	43	1.214	5.718	7.566	1.00	0.00
ATOM	649	CB	HIS	43	-0.742	5.652	4.764	1.00	0.00
ATOM	650	CG	HIS	43	-1.358	4.362	4.301	1.00	0.00
ATOM	651	ND1	HIS	43	-0.749	3.537	3.383	1.00	0.00
ATOM	652	CD2	HIS	43	-2.550	3.776	4.594	1.00	0.00
ATOM	653	CE1	HIS	43	-1.533	2.513	3.124	1.00	0.00
ATOM	654	NE2	HIS	43	-2.627	2.632	3.845	1.00	0.00
ATOM	657	H	HIS	43	-2.343	7.255	5.824	1.00	0.00
ATOM	658	HA	HIS	43	-1.046	4.974	6.774	1.00	0.00
ATOM	659	1HB	HIS	43	0.290	5.661	4.451	1.00	0.00
ATOM	660	2HB	HIS	43	-1.260	6.460	4.273	1.00	0.00
ATOM	661	HD1	HIS	43	0.132	3.681	2.967	1.00	0.00
ATOM	662	HD2	HIS	43	-3.298	4.144	5.288	1.00	0.00
ATOM	663	HE1	HIS	43	-1.318	1.715	2.428	1.00	0.00
ATOM	664	HE2	HIS	43	-3.443	2.076	3.718	1.00	0.00
ATOM	665	N	GLN	44	1.009	7.498	6.195	1.00	0.00
ATOM	666	CA	GLN	44	2.299	8.084	6.547	1.00	0.00
ATOM	672	C	GLN	44	2.374	8.361	8.042	1.00	0.00
ATOM	673	O	GLN	44	3.452	8.329	8.638	1.00	0.00
ATOM	667	CB	GLN	44	2.513	9.386	5.770	1.00	0.00
ATOM	668	CG	GLN	44	3.914	9.960	5.913	1.00	0.00
ATOM	669	CD	GLN	44	3.970	11.454	5.664	1.00	0.00
ATOM	670	OE1	GLN	44	3.090	12.204	6.088	1.00	0.00
ATOM	671	NE2	GLN	44	5.009	11.893	4.973	1.00	0.00
ATOM	674	H	GLN	44	0.447	7.955	5.535	1.00	0.00
ATOM	675	HA	GLN	44	3.071	7.380	6.279	1.00	0.00
ATOM	676	1HB	GLN	44	1.807	10.124	6.122	1.00	0.00
ATOM	677	2HB	GLN	44	2.331	9.200	4.722	1.00	0.00
ATOM	678	1HG	GLN	44	4.562	9.467	5.204	1.00	0.00



ATOM	679	2HG	GLN	44	4.267	9.765	6.915	1.00	0.00
ATOM	680	1HE2	GLN	44	5.670	11.241	4.669	1.00	0.00
ATOM	681	2HE2	GLN	44	5.081	12.863	4.793	1.00	0.00
ATOM	682	N	ALA	45	1.218	8.621	8.637	1.00	0.00
ATOM	683	CA	ALA	45	1.144	8.904	10.060	1.00	0.00
ATOM	685	C	ALA	45	1.413	7.655	10.887	1.00	0.00
ATOM	686	O	ALA	45	2.245	7.667	11.795	1.00	0.00
ATOM	684	CB	ALA	45	-0.213	9.485	10.410	1.00	0.00
ATOM	687	H	ALA	45	0.391	8.616	8.101	1.00	0.00
ATOM	688	HA	ALA	45	1.896	9.645	10.292	1.00	0.00
ATOM	689	1HB	ALA	45	-0.781	9.645	9.506	1.00	0.00
ATOM	690	2HB	ALA	45	-0.081	10.426	10.924	1.00	0.00
ATOM	691	3HB	ALA	45	-0.745	8.797	11.051	1.00	0.00
ATOM	692	N	MET	46	0.701	6.578	10.578	1.00	0.00
ATOM	693	CA	MET	46	0.860	5.329	11.310	1.00	0.00
ATOM	698	C	MET	46	2.250	4.739	11.113	1.00	0.00
ATOM	699	O	MET	46	2.820	4.155	12.035	1.00	0.00
ATOM	694	CB	MET	46	-0.196	4.322	10.871	1.00	0.00
ATOM	695	CG	MET	46	-0.697	3.451	12.004	1.00	0.00
ATOM	696	SD	MET	46	-2.244	2.635	11.605	1.00	0.00
ATOM	697	CE	MET	46	-3.380	3.670	12.512	1.00	0.00
ATOM	700	H	MET	46	0.041	6.625	9.841	1.00	0.00
ATOM	701	HA	MET	46	0.722	5.544	12.359	1.00	0.00
ATOM	702	1HB	MET	46	0.225	3.681	10.111	1.00	0.00
ATOM	703	2HB	MET	46	-1.037	4.856	10.456	1.00	0.00
ATOM	704	1HG	MET	46	-0.847	4.068	12.878	1.00	0.00
ATOM	705	2HG	MET	46	0.042	2.700	12.220	1.00	0.00
ATOM	706	1HE	MET	46	-3.948	4.273	11.819	1.00	0.00
ATOM	707	2HE	MET	46	-2.827	4.313	13.180	1.00	0.00
ATOM	708	3HE	MET	46	-4.054	3.049	13.085	1.00	0.00
ATOM	709	N	ARG	47	2.782	4.887	9.908	1.00	0.00
ATOM	710	CA	ARG	47	4.101	4.361	9.578	1.00	0.00
ATOM	718	C	ARG	47	5.193	4.995	10.438	1.00	0.00
ATOM	719	O	ARG	47	6.133	4.317	10.855	1.00	0.00
ATOM	711	CB	ARG	47	4.410	4.598	8.097	1.00	0.00
ATOM	712	CG	ARG	47	5.306	3.535	7.480	1.00	0.00
ATOM	713	CD	ARG	47	6.663	4.104	7.095	1.00	0.00
ATOM	714	NE	ARG	47	7.447	3.161	6.296	1.00	0.00
ATOM	715	CZ	ARG	47	8.569	3.485	5.647	1.00	0.00
ATOM	716	NH1	ARG	47	9.028	4.726	5.675	1.00	0.00
ATOM	717	NH2	ARG	47	9.227	2.564	4.956	1.00	0.00
ATOM	720	H	ARG	47	2.269	5.358	9.216	1.00	0.00
ATOM	721	HA	ARG	47	4.089	3.298	9.765	1.00	0.00
ATOM	722	1HB	ARG	47	4.900	5.554	7.992	1.00	0.00
ATOM	723	2HB	ARG	47	3.480	4.617	7.546	1.00	0.00
ATOM	724	1HG	ARG	47	4.825	3.141	6.596	1.00	0.00
ATOM	725	2HG	ARG	47	5.451	2.741	8.197	1.00	0.00
ATOM	726	1HD	ARG	47	7.209	4.339	7.996	1.00	0.00
ATOM	727	2HD	ARG	47	6.511	5.006	6.522	1.00	0.00
ATOM	728	HE	ARG	47	7.124	2.236	6.246	1.00	0.00
ATOM	729	1HH1	ARG	47	8.538	5.443	6.188	1.00	0.00
ATOM	730	2HH1	ARG	47	9.876	4.961	5.183	1.00	0.00
ATOM	731	1HH2	ARG	47	8.882	1.616	4.914	1.00	0.00
ATOM	732	2HH2	ARG	47	10.076	2.806	4.477	1.00	0.00
ATOM	733	N	ALA	48	5.064	6.289	10.709	1.00	0.00
ATOM	734	CA	ALA	48	6.052	6.989	11.519	1.00	0.00
ATOM	736	C	ALA	48	5.832	6.695	12.986	1.00	0.00
ATOM	737	O	ALA	48	6.785	6.475	13.734	1.00	0.00
ATOM	735	CB	ALA	48	6.001	8.485	11.255	1.00	0.00
ATOM	738	H	ALA	48	4.283	6.782	10.366	1.00	0.00
ATOM	739	HA	ALA	48	7.032	6.624	11.236	1.00	0.00
ATOM	740	1HB	ALA	48	6.375	8.688	10.263	1.00	0.00
ATOM	741	2HB	ALA	48	6.613	8.999	11.983	1.00	0.00
ATOM	742	3HB	ALA	48	4.981	8.830	11.334	1.00	0.00
ATOM	743	N	ALA	49	4.568	6.671	13.388	1.00	0.00
ATOM	744	CA	ALA	49	4.219	6.378	14.765	1.00	0.00
ATOM	746	C	ALA	49	4.748	5.006	15.137	1.00	0.00
ATOM	747	O	ALA	49	5.529	4.867	16.080	1.00	0.00
ATOM	745	CB	ALA	49	2.714	6.445	14.953	1.00	0.00
ATOM	748	H	ALA	49	3.853	6.841	12.737	1.00	0.00
ATOM	749	HA	ALA	49	4.679	7.122	15.399	1.00	0.00
ATOM	750	1HB	ALA	49	2.489	6.631	15.993	1.00	0.00
ATOM	751	2HB	ALA	49	2.271	5.508	14.650	1.00	0.00



ATOM	752	3HB	ALA	49	2.311	7.245	14.349	1.00	0.00
ATOM	753	N	GLY	50	4.324	4.001	14.372	1.00	0.00
ATOM	754	CA	GLY	50	4.764	2.640	14.595	1.00	0.00
ATOM	755	C	GLY	50	6.270	2.528	14.720	1.00	0.00
ATOM	756	O	GLY	50	6.757	1.893	15.638	1.00	0.00
ATOM	757	H	GLY	50	3.702	4.194	13.636	1.00	0.00
ATOM	758	1HA	GLY	50	4.437	2.027	13.769	1.00	0.00
ATOM	759	2HA	GLY	50	4.310	2.273	15.505	1.00	0.00
ATOM	760	N	ASP	51	7.001	3.158	13.804	1.00	0.00
ATOM	761	CA	ASP	51	8.466	3.135	13.823	1.00	0.00
ATOM	766	C	ASP	51	9.012	3.736	15.118	1.00	0.00
ATOM	767	O	ASP	51	9.866	3.139	15.783	1.00	0.00
ATOM	762	CB	ASP	51	9.021	3.904	12.621	1.00	0.00
ATOM	763	CG	ASP	51	10.409	3.437	12.224	1.00	0.00
ATOM	764	OD1	ASP	51	11.394	3.878	12.852	1.00	0.00
ATOM	765	OD2	ASP	51	10.521	2.634	11.269	1.00	0.00
ATOM	768	H	ASP	51	6.549	3.657	13.097	1.00	0.00
ATOM	769	HA	ASP	51	8.781	2.105	13.761	1.00	0.00
ATOM	770	1HB	ASP	51	9.070	4.956	12.865	1.00	0.00
ATOM	771	2HB	ASP	51	8.359	3.770	11.777	1.00	0.00
ATOM	772	N	GLU	52	8.507	4.913	15.477	1.00	0.00
ATOM	773	CA	GLU	52	8.930	5.597	16.695	1.00	0.00
ATOM	779	C	GLU	52	8.651	4.720	17.917	1.00	0.00
ATOM	780	O	GLU	52	9.489	4.596	18.816	1.00	0.00
ATOM	774	CB	GLU	52	8.207	6.945	16.820	1.00	0.00
ATOM	775	CG	GLU	52	8.296	7.578	18.201	1.00	0.00
ATOM	776	CD	GLU	52	8.789	9.010	18.163	1.00	0.00
ATOM	777	OE1	GLU	52	7.992	9.914	17.826	1.00	0.00
ATOM	778	OE2	GLU	52	9.970	9.240	18.493	1.00	0.00
ATOM	781	H	GLU	52	7.823	5.332	14.907	1.00	0.00
ATOM	782	HA	GLU	52	9.994	5.770	16.627	1.00	0.00
ATOM	783	1HB	GLU	52	7.162	6.799	16.583	1.00	0.00
ATOM	784	2HB	GLU	52	8.633	7.634	16.107	1.00	0.00
ATOM	785	1HG	GLU	52	8.974	6.994	18.806	1.00	0.00
ATOM	786	2HG	GLU	52	7.314	7.565	18.653	1.00	0.00
ATOM	787	N	PHE	53	7.477	4.101	17.940	1.00	0.00
ATOM	788	CA	PHE	53	7.099	3.231	19.042	1.00	0.00
ATOM	796	C	PHE	53	7.883	1.927	18.989	1.00	0.00
ATOM	797	O	PHE	53	8.293	1.415	20.017	1.00	0.00
ATOM	789	CB	PHE	53	5.605	2.936	19.016	1.00	0.00
ATOM	790	CG	PHE	53	4.915	3.231	20.317	1.00	0.00
ATOM	791	CD1	PHE	53	4.854	4.525	20.804	1.00	0.00
ATOM	792	CD2	PHE	53	4.326	2.213	21.049	1.00	0.00
ATOM	793	CE1	PHE	53	4.217	4.802	21.998	1.00	0.00
ATOM	794	CE2	PHE	53	3.688	2.482	22.244	1.00	0.00
ATOM	795	CZ	PHE	53	3.633	3.777	22.719	1.00	0.00
ATOM	798	H	PHE	53	6.852	4.230	17.189	1.00	0.00
ATOM	799	HA	PHE	53	7.340	3.741	19.962	1.00	0.00
ATOM	800	1HB	PHE	53	5.453	1.891	18.788	1.00	0.00
ATOM	801	2HB	PHE	53	5.139	3.540	18.251	1.00	0.00
ATOM	802	HD1	PHE	53	5.309	5.326	20.240	1.00	0.00
ATOM	803	HD2	PHE	53	4.369	1.200	20.678	1.00	0.00
ATOM	804	HE1	PHE	53	4.176	5.814	22.368	1.00	0.00
ATOM	805	HE2	PHE	53	3.233	1.681	22.807	1.00	0.00
ATOM	806	HZ	PHE	53	3.135	3.990	23.653	1.00	0.00
ATOM	807	N	GLU	54	8.098	1.408	17.788	1.00	0.00
ATOM	808	CA	GLU	54	8.848	0.168	17.593	1.00	0.00
ATOM	814	C	GLU	54	10.268	0.330	18.146	1.00	0.00
ATOM	815	O	GLU	54	10.940	-0.640	18.501	1.00	0.00
ATOM	809	CB	GLU	54	8.854	-0.199	16.094	1.00	0.00
ATOM	810	CG	GLU	54	9.546	-1.517	15.765	1.00	0.00
ATOM	811	CD	GLU	54	9.004	-2.175	14.501	1.00	0.00
ATOM	812	OE1	GLU	54	7.882	-1.832	14.072	1.00	0.00
ATOM	813	OE2	GLU	54	9.700	-3.041	13.920	1.00	0.00
ATOM	816	H	GLU	54	7.745	1.877	16.996	1.00	0.00
ATOM	817	HA	GLU	54	8.346	-0.614	18.146	1.00	0.00
ATOM	818	1HB	GLU	54	9.336	0.595	15.537	1.00	0.00
ATOM	819	2HB	GLU	54	7.828	-0.277	15.761	1.00	0.00
ATOM	820	1HG	GLU	54	9.409	-2.196	16.594	1.00	0.00
ATOM	821	2HG	GLU	54	10.600	-1.329	15.628	1.00	0.00
ATOM	822	N	THR	55	10.699	1.581	18.239	1.00	0.00
ATOM	823	CA	THR	55	12.011	1.915	18.765	1.00	0.00
ATOM	827	C	THR	55	11.952	2.257	20.268	1.00	0.00



ATOM	828	O	THR	55	12.868	1.933	21.023	1.00	0.00
ATOM	824	CB	THR	55	12.611	3.102	17.982	1.00	0.00
ATOM	825	OG1	THR	55	12.532	2.841	16.572	1.00	0.00
ATOM	826	CG2	THR	55	14.062	3.347	18.375	1.00	0.00
ATOM	829	H	THR	55	10.104	2.305	17.948	1.00	0.00
ATOM	830	HA	THR	55	12.655	1.059	18.626	1.00	0.00
ATOM	831	HB	THR	55	12.036	3.990	18.207	1.00	0.00
ATOM	832	HG1	THR	55	11.621	2.972	16.266	1.00	0.00
ATOM	833	1HG2	THR	55	14.390	4.292	17.968	1.00	0.00
ATOM	834	2HG2	THR	55	14.680	2.552	17.985	1.00	0.00
ATOM	835	3HG2	THR	55	14.142	3.371	19.452	1.00	0.00
ATOM	836	N	ARG	56	10.883	2.932	20.692	1.00	0.00
ATOM	837	CA	ARG	56	10.730	3.341	22.095	1.00	0.00
ATOM	845	C	ARG	56	10.121	2.238	22.977	1.00	0.00
ATOM	846	O	ARG	56	10.343	2.211	24.189	1.00	0.00
ATOM	838	CB	ARG	56	9.861	4.602	22.177	1.00	0.00
ATOM	839	CG	ARG	56	10.624	5.902	21.946	1.00	0.00
ATOM	840	CD	ARG	56	9.798	7.115	22.362	1.00	0.00
ATOM	841	NE	ARG	56	9.894	8.219	21.402	1.00	0.00
ATOM	842	CZ	ARG	56	9.948	9.509	21.745	1.00	0.00
ATOM	843	NH1	ARG	56	9.984	9.864	23.021	1.00	0.00
ATOM	844	NH2	ARG	56	9.983	10.443	20.808	1.00	0.00
ATOM	847	H	ARG	56	10.188	3.183	20.045	1.00	0.00
ATOM	848	HA	ARG	56	11.712	3.577	22.474	1.00	0.00
ATOM	849	1HB	ARG	56	9.406	4.646	23.156	1.00	0.00
ATOM	850	2HB	ARG	56	9.082	4.533	21.434	1.00	0.00
ATOM	851	1HG	ARG	56	10.866	5.984	20.897	1.00	0.00
ATOM	852	2HG	ARG	56	11.535	5.882	22.527	1.00	0.00
ATOM	853	1HD	ARG	56	10.148	7.461	23.326	1.00	0.00
ATOM	854	2HD	ARG	56	8.765	6.816	22.446	1.00	0.00
ATOM	855	HE	ARG	56	9.898	7.986	20.443	1.00	0.00
ATOM	856	1HH1	ARG	56	9.971	9.166	23.745	1.00	0.00
ATOM	857	2HH1	ARG	56	10.037	10.836	23.271	1.00	0.00
ATOM	858	1HH2	ARG	56	9.968	10.181	19.829	1.00	0.00
ATOM	859	2HH2	ARG	56	10.015	11.423	21.068	1.00	0.00
ATOM	860	N	PHE	57	9.345	1.348	22.376	1.00	0.00
ATOM	861	CA	PHE	57	8.700	0.262	23.104	1.00	0.00
ATOM	869	C	PHE	57	9.624	-0.940	23.206	1.00	0.00
ATOM	870	O	PHE	57	9.748	-1.730	22.269	1.00	0.00
ATOM	862	CB	PHE	57	7.388	-0.140	22.427	1.00	0.00
ATOM	863	CG	PHE	57	6.237	-0.311	23.381	1.00	0.00
ATOM	864	CD1	PHE	57	6.215	0.360	24.595	1.00	0.00
ATOM	865	CD2	PHE	57	5.177	-1.141	23.060	1.00	0.00
ATOM	866	CE1	PHE	57	5.157	0.206	25.468	1.00	0.00
ATOM	867	CE2	PHE	57	4.116	-1.300	23.930	1.00	0.00
ATOM	868	CZ	PHE	57	4.105	-0.627	25.136	1.00	0.00
ATOM	871	H	PHE	57	9.196	1.420	21.413	1.00	0.00
ATOM	872	HA	PHE	57	8.485	0.617	24.100	1.00	0.00
ATOM	873	1HB	PHE	57	7.531	-1.078	21.909	1.00	0.00
ATOM	874	2HB	PHE	57	7.113	0.619	21.711	1.00	0.00
ATOM	875	HD1	PHE	57	7.037	1.011	24.856	1.00	0.00
ATOM	876	HD2	PHE	57	5.184	-1.668	22.118	1.00	0.00
ATOM	877	HE1	PHE	57	5.151	0.733	26.412	1.00	0.00
ATOM	878	HE2	PHE	57	3.294	-1.951	23.667	1.00	0.00
ATOM	879	HZ	PHE	57	3.276	-0.751	25.817	1.00	0.00
ATOM	880	N	ARG	58	10.273	-1.055	24.349	1.00	0.00
ATOM	881	CA	ARG	58	11.205	-2.148	24.604	1.00	0.00
ATOM	889	C	ARG	58	10.497	-3.504	24.610	1.00	0.00
ATOM	890	O	ARG	58	11.065	-4.511	24.188	1.00	0.00
ATOM	882	CB	ARG	58	11.923	-1.926	25.936	1.00	0.00
ATOM	883	CG	ARG	58	13.209	-1.129	25.804	1.00	0.00
ATOM	884	CD	ARG	58	13.269	0.006	26.812	1.00	0.00
ATOM	885	NE	ARG	58	13.965	1.177	26.279	1.00	0.00
ATOM	886	CZ	ARG	58	13.833	2.409	26.768	1.00	0.00
ATOM	887	NH1	ARG	58	13.066	2.631	27.830	1.00	0.00
ATOM	888	NH2	ARG	58	14.475	3.423	26.205	1.00	0.00
ATOM	891	H	ARG	58	10.129	-0.376	25.037	1.00	0.00
ATOM	892	HA	ARG	58	11.937	-2.144	23.812	1.00	0.00
ATOM	893	1HB	ARG	58	12.162	-2.886	26.368	1.00	0.00
ATOM	894	2HB	ARG	58	11.262	-1.394	26.605	1.00	0.00
ATOM	895	1HG	ARG	58	13.264	-0.717	24.807	1.00	0.00
ATOM	896	2HG	ARG	58	14.048	-1.788	25.969	1.00	0.00
ATOM	897	1HD	ARG	58	13.789	-0.339	27.694	1.00	0.00



ATOM	898	2HD	ARG	58	12.262	0.289	27.076	1.00	0.00
ATOM	899	HE	ARG	58	14.567	1.033	25.506	1.00	0.00
ATOM	900	1HH1	ARG	58	12.582	1.875	28.272	1.00	0.00
ATOM	901	2HH1	ARG	58	12.976	3.566	28.200	1.00	0.00
ATOM	902	1HH2	ARG	58	15.066	3.272	25.402	1.00	0.00
ATOM	903	2HH2	ARG	58	14.373	4.350	26.580	1.00	0.00
ATOM	904	N	ARG	59	9.257	-3.527	25.082	1.00	0.00
ATOM	905	CA	ARG	59	8.491	-4.763	25.127	1.00	0.00
ATOM	913	C	ARG	59	7.423	-4.761	24.045	1.00	0.00
ATOM	914	O	ARG	59	6.330	-4.234	24.233	1.00	0.00
ATOM	906	CB	ARG	59	7.859	-4.959	26.505	1.00	0.00
ATOM	907	CG	ARG	59	8.400	-6.170	27.243	1.00	0.00
ATOM	908	CD	ARG	59	7.287	-6.993	27.866	1.00	0.00
ATOM	909	NE	ARG	59	7.413	-7.053	29.319	1.00	0.00
ATOM	910	CZ	ARG	59	6.462	-7.503	30.136	1.00	0.00
ATOM	911	NH1	ARG	59	5.331	-8.006	29.643	1.00	0.00
ATOM	912	NH2	ARG	59	6.654	-7.460	31.451	1.00	0.00
ATOM	915	H	ARG	59	8.848	-2.699	25.401	1.00	0.00
ATOM	916	HA	ARG	59	9.174	-5.578	24.937	1.00	0.00
ATOM	917	1HB	ARG	59	6.792	-5.080	26.387	1.00	0.00
ATOM	918	2HB	ARG	59	8.050	-4.081	27.106	1.00	0.00
ATOM	919	1HG	ARG	59	9.066	-5.835	28.023	1.00	0.00
ATOM	920	2HG	ARG	59	8.941	-6.790	26.546	1.00	0.00
ATOM	921	1HD	ARG	59	7.329	-7.995	27.467	1.00	0.00
ATOM	922	2HD	ARG	59	6.336	-6.545	27.612	1.00	0.00
ATOM	923	HE	ARG	59	8.254	-6.719	29.709	1.00	0.00
ATOM	924	1HH1	ARG	59	5.185	-8.052	28.637	1.00	0.00
ATOM	925	2HH1	ARG	59	4.613	-8.337	30.258	1.00	0.00
ATOM	926	1HH2	ARG	59	7.512	-7.093	31.822	1.00	0.00
ATOM	927	2HH2	ARG	59	5.942	-7.787	32.085	1.00	0.00
ATOM	928	N	THR	60	7.765	-5.330	22.905	1.00	0.00
ATOM	929	CA	THR	60	6.855	-5.379	21.774	1.00	0.00
ATOM	933	C	THR	60	6.554	-6.819	21.360	1.00	0.00
ATOM	934	O	THR	60	5.401	-7.245	21.343	1.00	0.00
ATOM	930	CB	THR	60	7.459	-4.628	20.575	1.00	0.00
ATOM	931	OG1	THR	60	8.856	-4.393	20.816	1.00	0.00
ATOM	932	CG2	THR	60	6.743	-3.304	20.338	1.00	0.00
ATOM	935	H	THR	60	8.662	-5.707	22.811	1.00	0.00
ATOM	936	HA	THR	60	5.933	-4.890	22.055	1.00	0.00
ATOM	937	HB	THR	60	7.351	-5.242	19.693	1.00	0.00
ATOM	938	HG1	THR	60	9.003	-3.453	20.972	1.00	0.00
ATOM	939	1HG2	THR	60	7.400	-2.487	20.594	1.00	0.00
ATOM	940	2HG2	THR	60	5.856	-3.260	20.952	1.00	0.00
ATOM	941	3HG2	THR	60	6.464	-3.228	19.297	1.00	0.00
ATOM	942	N	PHE	61	7.600	-7.559	21.005	1.00	0.00
ATOM	943	CA	PHE	61	7.447	-8.942	20.560	1.00	0.00
ATOM	951	C	PHE	61	7.470	-9.935	21.721	1.00	0.00
ATOM	952	O	PHE	61	7.162	-11.112	21.544	1.00	0.00
ATOM	944	CB	PHE	61	8.544	-9.288	19.549	1.00	0.00
ATOM	945	CG	PHE	61	8.221	-8.852	18.146	1.00	0.00
ATOM	946	CD1	PHE	61	8.285	-7.514	17.789	1.00	0.00
ATOM	947	CD2	PHE	61	7.849	-9.779	17.188	1.00	0.00
ATOM	948	CE1	PHE	61	7.982	-7.111	16.502	1.00	0.00
ATOM	949	CE2	PHE	61	7.546	-9.383	15.900	1.00	0.00
ATOM	950	CZ	PHE	61	7.613	-8.047	15.556	1.00	0.00
ATOM	953	H	PHE	61	8.496	-7.158	21.021	1.00	0.00
ATOM	954	HA	PHE	61	6.491	-9.019	20.066	1.00	0.00
ATOM	955	1HB	PHE	61	8.692	-10.359	19.540	1.00	0.00
ATOM	956	2HB	PHE	61	9.464	-8.804	19.844	1.00	0.00
ATOM	957	HD1	PHE	61	7.795	-10.825	17.456	1.00	0.00
ATOM	958	HD2	PHE	61	8.574	-6.782	18.528	1.00	0.00
ATOM	959	HE1	PHE	61	7.257	-10.117	15.163	1.00	0.00
ATOM	960	HE2	PHE	61	8.037	-6.065	16.235	1.00	0.00
ATOM	961	HZ	PHE	61	7.377	-7.735	14.550	1.00	0.00
ATOM	962	N	SER	62	7.831	-9.466	22.903	1.00	0.00
ATOM	963	CA	SER	62	7.893	-10.327	24.078	1.00	0.00
ATOM	966	C	SER	62	6.508	-10.817	24.486	1.00	0.00
ATOM	967	O	SER	62	6.327	-11.985	24.840	1.00	0.00
ATOM	964	CB	SER	62	8.549	-9.563	25.224	1.00	0.00
ATOM	965	OG	SER	62	9.047	-8.314	24.764	1.00	0.00
ATOM	968	H	SER	62	8.069	-8.523	22.994	1.00	0.00
ATOM	969	HA	SER	62	8.500	-11.183	23.829	1.00	0.00
ATOM	970	1HB	SER	62	9.371	-10.141	25.622	1.00	0.00



ATOM	971	2HB	SER	62	7.821	-9.385	26.000	1.00	0.00
ATOM	972	HG	SER	62	10.017	-8.336	24.773	1.00	0.00
ATOM	973	N	ASP	63	5.533	-9.925	24.429	1.00	0.00
ATOM	974	CA	ASP	63	4.163	-10.266	24.792	1.00	0.00
ATOM	979	C	ASP	63	3.522	-11.125	23.717	1.00	0.00
ATOM	980	O	ASP	63	2.504	-11.780	23.949	1.00	0.00
ATOM	975	CB	ASP	63	3.351	-8.992	25.033	1.00	0.00
ATOM	976	CG	ASP	63	3.500	-8.459	26.451	1.00	0.00
ATOM	977	OD1	ASP	63	4.620	-8.529	27.009	1.00	0.00
ATOM	978	OD2	ASP	63	2.495	-7.979	27.020	1.00	0.00
ATOM	981	H	ASP	63	5.737	-9.012	24.137	1.00	0.00
ATOM	982	HA	ASP	63	4.195	-10.849	25.699	1.00	0.00
ATOM	983	1HB	ASP	63	2.309	-9.203	24.853	1.00	0.00
ATOM	984	2HB	ASP	63	3.682	-8.229	24.346	1.00	0.00
ATOM	985	N	LEU	64	4.146	-11.152	22.554	1.00	0.00
ATOM	986	CA	LEU	64	3.667	-11.967	21.448	1.00	0.00
ATOM	991	C	LEU	64	4.029	-13.414	21.726	1.00	0.00
ATOM	992	O	LEU	64	3.239	-14.332	21.495	1.00	0.00
ATOM	987	CB	LEU	64	4.298	-11.516	20.131	1.00	0.00
ATOM	988	CG	LEU	64	3.597	-10.365	19.399	1.00	0.00
ATOM	989	CD1	LEU	64	2.711	-9.554	20.336	1.00	0.00
ATOM	990	CD2	LEU	64	4.631	-9.470	18.750	1.00	0.00
ATOM	993	H	LEU	64	4.967	-10.632	22.443	1.00	0.00
ATOM	994	HA	LEU	64	2.593	-11.869	21.391	1.00	0.00
ATOM	995	1HB	LEU	64	4.328	-12.367	19.466	1.00	0.00
ATOM	996	2HB	LEU	64	5.315	-11.212	20.336	1.00	0.00
ATOM	997	HG	LEU	64	2.972	-10.772	18.619	1.00	0.00
ATOM	998	1HD1	LEU	64	3.313	-8.827	20.861	1.00	0.00
ATOM	999	2HD1	LEU	64	2.242	-10.214	21.051	1.00	0.00
ATOM	1000	3HD1	LEU	64	1.952	-9.045	19.762	1.00	0.00
ATOM	1001	1HD2	LEU	64	4.902	-9.874	17.785	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.510	-9.419	19.378	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.222	-8.479	18.624	1.00	0.00
ATOM	1004	N	ALA	65	5.231	-13.599	22.258	1.00	0.00
ATOM	1005	CA	ALA	65	5.724	-14.919	22.604	1.00	0.00
ATOM	1007	C	ALA	65	5.019	-15.419	23.853	1.00	0.00
ATOM	1008	O	ALA	65	4.567	-16.559	23.902	1.00	0.00
ATOM	1006	CB	ALA	65	7.232	-14.888	22.811	1.00	0.00
ATOM	1009	H	ALA	65	5.796	-12.815	22.437	1.00	0.00
ATOM	1010	HA	ALA	65	5.504	-15.586	21.784	1.00	0.00
ATOM	1011	1HB	ALA	65	7.460	-15.169	23.829	1.00	0.00
ATOM	1012	2HB	ALA	65	7.601	-13.891	22.621	1.00	0.00
ATOM	1013	3HB	ALA	65	7.703	-15.582	22.132	1.00	0.00
ATOM	1014	N	ALA	66	4.915	-14.543	24.852	1.00	0.00
ATOM	1015	CA	ALA	66	4.246	-14.870	26.110	1.00	0.00
ATOM	1017	C	ALA	66	2.853	-15.433	25.849	1.00	0.00
ATOM	1018	O	ALA	66	2.439	-16.417	26.463	1.00	0.00
ATOM	1016	CB	ALA	66	4.157	-13.634	26.983	1.00	0.00
ATOM	1019	H	ALA	66	5.295	-13.640	24.734	1.00	0.00
ATOM	1020	HA	ALA	66	4.833	-15.607	26.633	1.00	0.00
ATOM	1021	1HB	ALA	66	4.806	-12.867	26.588	1.00	0.00
ATOM	1022	2HB	ALA	66	4.461	-13.880	27.990	1.00	0.00
ATOM	1023	3HB	ALA	66	3.139	-13.273	26.992	1.00	0.00
ATOM	1024	N	GLN	67	2.141	-14.793	24.934	1.00	0.00
ATOM	1025	CA	GLN	67	0.787	-15.207	24.576	1.00	0.00
ATOM	1031	C	GLN	67	0.739	-16.545	23.836	1.00	0.00
ATOM	1032	O	GLN	67	0.005	-17.453	24.227	1.00	0.00
ATOM	1026	CB	GLN	67	0.137	-14.162	23.678	1.00	0.00
ATOM	1027	CG	GLN	67	-0.537	-13.030	24.421	1.00	0.00
ATOM	1028	CD	GLN	67	-1.054	-11.977	23.469	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.244	-11.930	23.164	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.159	-11.134	22.986	1.00	0.00
ATOM	1033	H	GLN	67	2.538	-14.005	24.490	1.00	0.00
ATOM	1034	HA	GLN	67	0.212	-15.289	25.485	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.606	-14.650	23.063	1.00	0.00
ATOM	1036	2HB	GLN	67	0.894	-13.737	23.037	1.00	0.00
ATOM	1037	1HG	GLN	67	0.177	-12.574	25.091	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.367	-13.427	24.988	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.778	-11.239	23.268	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.464	-10.438	22.369	1.00	0.00
ATOM	1041	N	LEU	68	1.458	-16.632	22.724	1.00	0.00
ATOM	1042	CA	LEU	68	1.423	-17.827	21.882	1.00	0.00
ATOM	1047	C	LEU	68	2.440	-18.898	22.278	1.00	0.00



ATOM	1048	O	LEU	68	2.719	-19.798	21.489	1.00	0.00
ATOM	1043	CB	LEU	68	1.631	-17.432	20.416	1.00	0.00
ATOM	1044	CG	LEU	68	0.405	-16.836	19.705	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.892	-17.298	20.357	1.00	0.00
ATOM	1046	CD2	LEU	68	0.482	-15.316	19.688	1.00	0.00
ATOM	1049	H	LEU	68	1.981	-15.853	22.428	1.00	0.00
ATOM	1050	HA	LEU	68	0.437	-18.253	21.977	1.00	0.00
ATOM	1051	LHB	LEU	68	1.941	-18.312	19.871	1.00	0.00
ATOM	1052	2HB	LEU	68	2.431	-16.707	20.374	1.00	0.00
ATOM	1053	HG	LEU	68	0.398	-17.178	18.680	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.861	-18.367	20.504	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.726	-17.047	19.717	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.010	-16.806	21.312	1.00	0.00
ATOM	1057	1HD2	LEU	68	1.318	-14.992	20.291	1.00	0.00
ATOM	1058	2HD2	LEU	68	-0.432	-14.905	20.089	1.00	0.00
ATOM	1059	3HD2	LEU	68	0.616	-14.974	18.673	1.00	0.00
ATOM	1060	N	HIS	69	2.990	-18.821	23.479	1.00	0.00
ATOM	1061	CA	HIS	69	3.962	-19.822	23.910	1.00	0.00
ATOM	1068	C	HIS	69	3.266	-21.097	24.371	1.00	0.00
ATOM	1069	O	HIS	69	3.854	-22.174	24.346	1.00	0.00
ATOM	1062	CB	HIS	69	4.847	-19.286	25.036	1.00	0.00
ATOM	1063	CG	HIS	69	6.260	-19.786	24.978	1.00	0.00
ATOM	1064	ND1	HIS	69	6.742	-20.586	23.963	1.00	0.00
ATOM	1065	CD2	HIS	69	7.301	-19.593	25.823	1.00	0.00
ATOM	1066	CE1	HIS	69	8.010	-20.862	24.186	1.00	0.00
ATOM	1067	NE2	HIS	69	8.376	-20.272	25.307	1.00	0.00
ATOM	1070	H	HIS	69	2.746	-18.084	24.081	1.00	0.00
ATOM	1071	HA	HIS	69	4.585	-20.059	23.062	1.00	0.00
ATOM	1072	LHB	HIS	69	4.427	-19.583	25.987	1.00	0.00
ATOM	1073	2HB	HIS	69	4.873	-18.209	24.982	1.00	0.00
ATOM	1074	HD1	HIS	69	6.225	-20.911	23.182	1.00	0.00
ATOM	1075	HD2	HIS	69	7.288	-19.009	26.733	1.00	0.00
ATOM	1076	HE1	HIS	69	8.644	-21.467	23.555	1.00	0.00
ATOM	1077	HE2	HIS	69	9.215	-20.467	25.794	1.00	0.00
ATOM	1078	N	VAL	70	2.018	-20.963	24.798	1.00	0.00
ATOM	1079	CA	VAL	70	1.244	-22.105	25.272	1.00	0.00
ATOM	1083	C	VAL	70	0.438	-22.745	24.143	1.00	0.00
ATOM	1084	O	VAL	70	0.666	-23.898	23.778	1.00	0.00
ATOM	1080	CB	VAL	70	0.286	-21.713	26.421	1.00	0.00
ATOM	1081	CG1	VAL	70	0.876	-22.111	27.763	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.026	-20.221	26.395	1.00	0.00
ATOM	1085	H	VAL	70	1.609	-20.074	24.797	1.00	0.00
ATOM	1086	HA	VAL	70	1.941	-22.837	25.652	1.00	0.00
ATOM	1087	HB	VAL	70	-0.641	-22.254	26.288	1.00	0.00
ATOM	1088	1HG1	VAL	70	0.153	-22.692	28.316	1.00	0.00
ATOM	1089	2HG1	VAL	70	1.130	-21.224	28.324	1.00	0.00
ATOM	1090	3HG1	VAL	70	1.766	-22.703	27.604	1.00	0.00
ATOM	1091	1HG2	VAL	70	-0.815	-20.030	25.682	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.858	-19.673	26.108	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.344	-19.902	27.377	1.00	0.00
ATOM	1094	N	THR	71	-0.514	-21.990	23.608	1.00	0.00
ATOM	1095	CA	THR	71	-1.372	-22.466	22.536	1.00	0.00
ATOM	1099	C	THR	71	-2.188	-21.293	21.974	1.00	0.00
ATOM	1100	O	THR	71	-2.469	-20.326	22.694	1.00	0.00
ATOM	1096	CB	THR	71	-2.311	-23.600	23.045	1.00	0.00
ATOM	1097	OG1	THR	71	-2.657	-24.490	21.976	1.00	0.00
ATOM	1098	CG2	THR	71	-3.583	-23.044	23.674	1.00	0.00
ATOM	1101	H	THR	71	-0.651	-21.085	23.952	1.00	0.00
ATOM	1102	HA	THR	71	-0.744	-22.865	21.753	1.00	0.00
ATOM	1103	HB	THR	71	-1.779	-24.161	23.800	1.00	0.00
ATOM	1104	HG1	THR	71	-1.855	-24.925	21.643	1.00	0.00
ATOM	1105	1HG2	THR	71	-4.069	-23.819	24.249	1.00	0.00
ATOM	1106	2HG2	THR	71	-4.249	-22.701	22.895	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.333	-22.218	24.323	1.00	0.00
ATOM	1108	N	PRO	72	-2.559	-21.343	20.684	1.00	0.00
ATOM	1109	CA	PRO	72	-3.327	-20.284	20.035	1.00	0.00
ATOM	1113	C	PRO	72	-4.826	-20.403	20.320	1.00	0.00
ATOM	1114	O	PRO	72	-5.241	-21.133	21.220	1.00	0.00
ATOM	1110	CB	PRO	72	-3.049	-20.493	18.537	1.00	0.00
ATOM	1111	CG	PRO	72	-2.164	-21.698	18.431	1.00	0.00
ATOM	1112	CD	PRO	72	-2.254	-22.422	19.743	1.00	0.00
ATOM	1115	HA	PRO	72	-2.982	-19.307	20.336	1.00	0.00
ATOM	1116	LHB	PRO	72	-2.561	-19.615	18.139	1.00	0.00



ATOM	1117	2HB	PRO	72	-3.984	-20.649	18.018	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.146	-21.388	18.244	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.512	-22.336	17.631	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.311	-22.890	19.985	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.049	-23.153	19.720	1.00	0.00
ATOM	1122	N	GLY	73	-5.636	-19.689	19.547	1.00	0.00
ATOM	1123	CA	GLY	73	-7.077	-19.744	19.732	1.00	0.00
ATOM	1124	C	GLY	73	-7.573	-18.800	20.811	1.00	0.00
ATOM	1125	O	GLY	73	-8.222	-17.796	20.513	1.00	0.00
ATOM	1126	H	GLY	73	-5.255	-19.126	18.839	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.354	-20.753	19.998	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.556	-19.486	18.799	1.00	0.00
ATOM	1129	N	SER	74	-7.270	-19.119	22.066	1.00	0.00
ATOM	1130	CA	SER	74	-7.690	-18.305	23.208	1.00	0.00
ATOM	1133	C	SER	74	-6.881	-17.008	23.318	1.00	0.00
ATOM	1134	O	SER	74	-6.524	-16.573	24.413	1.00	0.00
ATOM	1131	CB	SER	74	-7.544	-19.124	24.491	1.00	0.00
ATOM	1132	OG	SER	74	-7.376	-20.501	24.192	1.00	0.00
ATOM	1135	H	SER	74	-6.750	-19.936	22.235	1.00	0.00
ATOM	1136	HA	SER	74	-8.731	-18.053	23.072	1.00	0.00
ATOM	1137	1HB	SER	74	-8.430	-19.003	25.097	1.00	0.00
ATOM	1138	2HB	SER	74	-6.681	-18.780	25.041	1.00	0.00
ATOM	1139	HG	SER	74	-8.213	-20.858	23.853	1.00	0.00
ATOM	1140	N	ALA	75	-6.601	-16.389	22.183	1.00	0.00
ATOM	1141	CA	ALA	75	-5.843	-15.151	22.157	1.00	0.00
ATOM	1143	C	ALA	75	-6.768	-13.943	22.140	1.00	0.00
ATOM	1144	O	ALA	75	-6.371	-12.846	22.533	1.00	0.00
ATOM	1142	CB	ALA	75	-4.913	-15.129	20.955	1.00	0.00
ATOM	1145	H	ALA	75	-6.918	-16.778	21.338	1.00	0.00
ATOM	1146	HA	ALA	75	-5.239	-15.113	23.046	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.928	-16.094	20.470	1.00	0.00
ATOM	1148	2HB	ALA	75	-3.908	-14.906	21.281	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.241	-14.371	20.259	1.00	0.00
ATOM	1150	N	GLN	76	-8.001	-14.143	21.680	1.00	0.00
ATOM	1151	CA	GLN	76	-8.970	-13.054	21.604	1.00	0.00
ATOM	1157	C	GLN	76	-9.296	-12.494	22.973	1.00	0.00
ATOM	1158	O	GLN	76	-9.428	-11.284	23.126	1.00	0.00
ATOM	1152	CB	GLN	76	-10.246	-13.485	20.871	1.00	0.00
ATOM	1153	CG	GLN	76	-10.751	-14.865	21.238	1.00	0.00
ATOM	1154	CD	GLN	76	-12.011	-15.238	20.483	1.00	0.00
ATOM	1155	OE1	GLN	76	-13.097	-15.300	21.059	1.00	0.00
ATOM	1156	NE2	GLN	76	-11.873	-15.490	19.190	1.00	0.00
ATOM	1159	H	GLN	76	-8.259	-15.038	21.377	1.00	0.00
ATOM	1160	HA	GLN	76	-8.505	-12.266	21.029	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.055	-13.468	19.808	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.028	-12.774	21.095	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.961	-14.882	22.289	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.984	-15.590	21.011	1.00	0.00
ATOM	1165	1HE2	GLN	76	-10.977	-15.426	18.795	1.00	0.00
ATOM	1166	2HE2	GLN	76	-12.676	-15.728	18.673	1.00	0.00
ATOM	1167	N	GLN	77	-9.407	-13.364	23.965	1.00	0.00
ATOM	1168	CA	GLN	77	-9.706	-12.933	25.323	1.00	0.00
ATOM	1174	C	GLN	77	-8.587	-12.049	25.855	1.00	0.00
ATOM	1175	O	GLN	77	-8.841	-10.994	26.438	1.00	0.00
ATOM	1169	CB	GLN	77	-9.911	-14.143	26.239	1.00	0.00
ATOM	1170	CG	GLN	77	-11.285	-14.785	26.110	1.00	0.00
ATOM	1171	CD	GLN	77	-11.471	-15.514	24.791	1.00	0.00
ATOM	1172	OE1	GLN	77	-10.553	-16.171	24.291	1.00	0.00
ATOM	1173	NE2	GLN	77	-12.655	-15.398	24.214	1.00	0.00
ATOM	1176	H	GLN	77	-9.279	-14.319	23.782	1.00	0.00
ATOM	1177	HA	GLN	77	-10.615	-12.351	25.289	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.779	-13.828	27.264	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.166	-14.888	26.002	1.00	0.00
ATOM	1180	1HG	GLN	77	-12.037	-14.014	26.188	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.413	-15.494	26.915	1.00	0.00
ATOM	1182	1HE2	GLN	77	-13.344	-14.852	24.667	1.00	0.00
ATOM	1183	2HE2	GLN	77	-12.802	-15.854	23.359	1.00	0.00
ATOM	1184	N	ARG	78	-7.349	-12.470	25.627	1.00	0.00
ATOM	1185	CA	ARG	78	-6.190	-11.706	26.066	1.00	0.00
ATOM	1193	C	ARG	78	-6.156	-10.358	25.357	1.00	0.00
ATOM	1194	O	ARG	78	-5.903	-9.323	25.976	1.00	0.00
ATOM	1186	CB	ARG	78	-4.899	-12.471	25.774	1.00	0.00
ATOM	1187	CG	ARG	78	-4.494	-13.441	26.873	1.00	0.00



ATOM	1188	CD	ARG	78	-3.599	-14.547	26.333	1.00	0.00
ATOM	1189	NE	ARG	78	-4.148	-15.877	26.595	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.762	-16.986	25.966	1.00	0.00
ATOM	1191	NH1	ARG	78	-2.802	-16.936	25.048	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.338	-18.144	26.266	1.00	0.00
ATOM	1195	H	ARG	78	-7.214	-13.307	25.139	1.00	0.00
ATOM	1196	HA	ARG	78	-6.279	-11.540	27.130	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.098	-11.758	25.641	1.00	0.00
ATOM	1198	2HB	ARG	78	-5.026	-13.031	24.860	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.385	-13.884	27.295	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.959	-12.900	27.638	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.629	-14.469	26.800	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.493	-14.417	25.265	1.00	0.00
ATOM	1203	HE	ARG	78	-4.855	-15.948	27.284	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.365	-16.062	24.826	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.503	-17.770	24.578	1.00	0.00
ATOM	1206	1HH2	ARG	78	-5.062	-18.175	26.968	1.00	0.00
ATOM	1207	2HH2	ARG	78	-4.063	-18.986	25.800	1.00	0.00
ATOM	1208	N	PHE	79	-6.426	-10.384	24.055	1.00	0.00
ATOM	1209	CA	PHE	79	-6.442	-9.172	23.252	1.00	0.00
ATOM	1217	C	PHE	79	-7.533	-8.225	23.742	1.00	0.00
ATOM	1218	O	PHE	79	-7.270	-7.050	23.987	1.00	0.00
ATOM	1210	CB	PHE	79	-6.661	-9.502	21.776	1.00	0.00
ATOM	1211	CG	PHE	79	-6.128	-8.454	20.843	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.771	-8.179	20.791	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.985	-7.742	20.020	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.278	-7.214	19.933	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.499	-6.777	19.160	1.00	0.00
ATOM	1216	CZ	PHE	79	-5.144	-6.511	19.116	1.00	0.00
ATOM	1219	H	PHE	79	-6.625	-11.244	23.625	1.00	0.00
ATOM	1220	HA	PHE	79	-5.482	-8.689	23.362	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.720	-9.603	21.592	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.169	-10.434	21.543	1.00	0.00
ATOM	1223	HD1	PHE	79	-4.094	-8.728	21.428	1.00	0.00
ATOM	1224	HD2	PHE	79	-8.045	-7.949	20.054	1.00	0.00
ATOM	1225	HE1	PHE	79	-3.218	-7.009	19.901	1.00	0.00
ATOM	1226	HE2	PHE	79	-7.178	-6.229	18.523	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.762	-5.756	18.445	1.00	0.00
ATOM	1228	N	THR	80	-8.759	-8.736	23.887	1.00	0.00
ATOM	1229	CA	THR	80	-9.877	-7.910	24.351	1.00	0.00
ATOM	1233	C	THR	80	-9.577	-7.267	25.705	1.00	0.00
ATOM	1234	O	THR	80	-10.013	-6.150	25.972	1.00	0.00
ATOM	1230	CB	THR	80	-11.192	-8.708	24.458	1.00	0.00
ATOM	1231	OG1	THR	80	-10.947	-10.019	24.975	1.00	0.00
ATOM	1232	CG2	THR	80	-11.867	-8.809	23.099	1.00	0.00
ATOM	1235	H	THR	80	-8.917	-9.688	23.667	1.00	0.00
ATOM	1236	HA	THR	80	-10.024	-7.124	23.625	1.00	0.00
ATOM	1237	HB	THR	80	-11.855	-8.187	25.131	1.00	0.00
ATOM	1238	HG1	THR	80	-10.220	-9.989	25.605	1.00	0.00
ATOM	1239	1HG2	THR	80	-11.337	-9.524	22.488	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.848	-7.843	22.617	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.889	-9.129	23.224	1.00	0.00
ATOM	1242	N	GLN	81	-8.819	-7.969	26.549	1.00	0.00
ATOM	1243	CA	GLN	81	-8.458	-7.449	27.863	1.00	0.00
ATOM	1249	C	GLN	81	-7.638	-6.180	27.725	1.00	0.00
ATOM	1250	O	GLN	81	-8.065	-5.104	28.134	1.00	0.00
ATOM	1244	CB	GLN	81	-7.658	-8.483	28.655	1.00	0.00
ATOM	1245	CG	GLN	81	-8.511	-9.594	29.225	1.00	0.00
ATOM	1246	CD	GLN	81	-9.182	-9.203	30.528	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.607	-9.362	31.605	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.402	-8.695	30.439	1.00	0.00
ATOM	1251	H	GLN	81	-8.485	-8.853	26.276	1.00	0.00
ATOM	1252	HA	GLN	81	-9.368	-7.223	28.396	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.156	-7.986	29.473	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.917	-8.924	28.004	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.887	-10.459	29.401	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.270	-9.840	28.502	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.805	-8.606	29.552	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.853	-8.416	31.273	1.00	0.00
ATOM	1259	N	VAL	82	-6.458	-6.323	27.139	1.00	0.00
ATOM	1260	CA	VAL	82	-5.551	-5.197	26.939	1.00	0.00
ATOM	1264	C	VAL	82	-6.197	-4.093	26.107	1.00	0.00
ATOM	1265	O	VAL	82	-5.922	-2.916	26.317	1.00	0.00



ATOM	1261	CB	VAL	82	-4.224	-5.640	26.282	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.604	-6.771	27.076	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.417	-6.056	24.829	1.00	0.00
ATOM	1266	H	VAL	82	-6.189	-7.217	26.835	1.00	0.00
ATOM	1267	HA	VAL	82	-5.315	-4.790	27.918	1.00	0.00
ATOM	1268	HB	VAL	82	-3.542	-4.803	26.305	1.00	0.00
ATOM	1269	1HG1	VAL	82	-2.664	-6.444	27.494	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.434	-7.617	26.426	1.00	0.00
ATOM	1271	3HG1	VAL	82	-4.272	-7.059	27.875	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.583	-6.668	24.516	1.00	0.00
ATOM	1273	2HG2	VAL	82	-4.470	-5.175	24.206	1.00	0.00
ATOM	1274	3HG2	VAL	82	-5.333	-6.620	24.735	1.00	0.00
ATOM	1275	N	SER	83	-7.066	-4.471	25.175	1.00	0.00
ATOM	1276	CA	SER	83	-7.746	-3.494	24.337	1.00	0.00
ATOM	1279	C	SER	83	-8.682	-2.635	25.179	1.00	0.00
ATOM	1280	O	SER	83	-8.727	-1.413	25.021	1.00	0.00
ATOM	1277	CB	SER	83	-8.525	-4.187	23.220	1.00	0.00
ATOM	1278	OG	SER	83	-7.665	-4.962	22.402	1.00	0.00
ATOM	1281	H	SER	83	-7.257	-5.426	25.054	1.00	0.00
ATOM	1282	HA	SER	83	-6.992	-2.856	23.897	1.00	0.00
ATOM	1283	1HB	SER	83	-9.010	-3.442	22.606	1.00	0.00
ATOM	1284	2HB	SER	83	-9.271	-4.837	23.653	1.00	0.00
ATOM	1285	HG	SER	83	-7.331	-5.711	22.910	1.00	0.00
ATOM	1286	N	ASP	84	-9.412	-3.276	26.086	1.00	0.00
ATOM	1287	CA	ASP	84	-10.335	-2.559	26.959	1.00	0.00
ATOM	1292	C	ASP	84	-9.563	-1.707	27.955	1.00	0.00
ATOM	1293	O	ASP	84	-9.973	-0.596	28.286	1.00	0.00
ATOM	1288	CB	ASP	84	-11.263	-3.530	27.694	1.00	0.00
ATOM	1289	CG	ASP	84	-12.722	-3.131	27.578	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.259	-3.141	26.449	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.339	-2.805	28.613	1.00	0.00
ATOM	1294	H	ASP	84	-9.322	-4.251	26.179	1.00	0.00
ATOM	1295	HA	ASP	84	-10.933	-1.907	26.338	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.996	-3.549	28.740	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.144	-4.518	27.278	1.00	0.00
ATOM	1298	N	GLU	85	-8.428	-2.225	28.413	1.00	0.00
ATOM	1299	CA	GLU	85	-7.581	-1.502	29.357	1.00	0.00
ATOM	1305	C	GLU	85	-6.918	-0.315	28.663	1.00	0.00
ATOM	1306	O	GLU	85	-6.635	0.705	29.284	1.00	0.00
ATOM	1300	CB	GLU	85	-6.515	-2.427	29.951	1.00	0.00
ATOM	1301	CG	GLU	85	-7.083	-3.675	30.609	1.00	0.00
ATOM	1302	CD	GLU	85	-7.258	-3.531	32.107	1.00	0.00
ATOM	1303	OE1	GLU	85	-6.307	-3.840	32.854	1.00	0.00
ATOM	1304	OE2	GLU	85	-8.355	-3.122	32.547	1.00	0.00
ATOM	1307	H	GLU	85	-8.147	-3.114	28.100	1.00	0.00
ATOM	1308	HA	GLU	85	-8.213	-1.133	30.152	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.953	-1.880	30.692	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.846	-2.737	29.161	1.00	0.00
ATOM	1311	1HG	GLU	85	-6.411	-4.500	30.419	1.00	0.00
ATOM	1312	2HG	GLU	85	-8.046	-3.888	30.170	1.00	0.00
ATOM	1313	N	LEU	86	-6.684	-0.459	27.364	1.00	0.00
ATOM	1314	CA	LEU	86	-6.066	0.596	26.570	1.00	0.00
ATOM	1319	C	LEU	86	-7.079	1.694	26.270	1.00	0.00
ATOM	1320	O	LEU	86	-6.740	2.876	26.214	1.00	0.00
ATOM	1315	CB	LEU	86	-5.518	0.022	25.258	1.00	0.00
ATOM	1316	CG	LEU	86	-4.002	0.138	25.075	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.302	-1.109	25.587	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.656	0.370	23.614	1.00	0.00
ATOM	1321	H	LEU	86	-6.939	-1.299	26.925	1.00	0.00
ATOM	1322	HA	LEU	86	-5.251	1.015	27.143	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.997	0.537	24.438	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.786	-1.023	25.209	1.00	0.00
ATOM	1325	HG	LEU	86	-3.640	0.982	25.643	1.00	0.00
ATOM	1326	1HD1	LEU	86	-2.362	-0.832	26.040	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.118	-1.781	24.761	1.00	0.00
ATOM	1328	3HD1	LEU	86	-3.925	-1.598	26.319	1.00	0.00
ATOM	1329	1HD2	LEU	86	-4.430	-0.052	22.989	1.00	0.00
ATOM	1330	2HD2	LEU	86	-2.713	-0.104	23.388	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.579	1.431	23.426	1.00	0.00
ATOM	1332	N	PHE	87	-8.327	1.292	26.079	1.00	0.00
ATOM	1333	CA	PHE	87	-9.401	2.231	25.784	1.00	0.00
ATOM	1341	C	PHE	87	-10.033	2.751	27.076	1.00	0.00
ATOM	1342	O	PHE	87	-10.897	3.628	27.043	1.00	0.00



ATOM	1334	CB	PHE	87	-10.460	1.549	24.909	1.00	0.00
ATOM	1335	CG	PHE	87	-11.532	2.476	24.405	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.218	3.530	23.563	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.854	2.293	24.779	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.202	4.385	23.102	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.842	3.145	24.322	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.515	4.192	23.484	1.00	0.00
ATOM	1343	H	PHE	87	-8.533	0.333	26.135	1.00	0.00
ATOM	1344	HA	PHE	87	-8.977	3.063	25.244	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.939	0.769	25.482	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.976	1.110	24.050	1.00	0.00
ATOM	1347	HD1	PHE	87	-13.112	1.475	25.435	1.00	0.00
ATOM	1348	HD2	PHE	87	-10.192	3.682	23.264	1.00	0.00
ATOM	1349	HE1	PHE	87	-14.869	2.991	24.620	1.00	0.00
ATOM	1350	HE2	PHE	87	-11.943	5.202	22.447	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.286	4.859	23.125	1.00	0.00
ATOM	1352	N	GLN	88	-9.596	2.194	28.206	1.00	0.00
ATOM	1353	CA	GLN	88	-10.106	2.569	29.528	1.00	0.00
ATOM	1359	C	GLN	88	-10.200	4.079	29.699	1.00	0.00
ATOM	1360	O	GLN	88	-11.210	4.595	30.174	1.00	0.00
ATOM	1354	CB	GLN	88	-9.209	1.998	30.623	1.00	0.00
ATOM	1355	CG	GLN	88	-9.973	1.437	31.809	1.00	0.00
ATOM	1356	CD	GLN	88	-9.332	0.184	32.362	1.00	0.00
ATOM	1357	OE1	GLN	88	-8.474	0.247	33.244	1.00	0.00
ATOM	1358	NE2	GLN	88	-9.747	-0.962	31.851	1.00	0.00
ATOM	1361	H	GLN	88	-8.912	1.493	28.149	1.00	0.00
ATOM	1362	HA	GLN	88	-11.093	2.147	29.632	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.558	2.783	30.981	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.607	1.207	30.203	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.980	1.203	31.496	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.003	2.184	32.589	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.442	-0.938	31.157	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.326	-1.797	32.176	1.00	0.00
ATOM	1369	N	GLY	89	-9.148	4.786	29.317	1.00	0.00
ATOM	1370	CA	GLY	89	-9.156	6.223	29.449	1.00	0.00
ATOM	1371	C	GLY	89	-7.938	6.872	28.839	1.00	0.00
ATOM	1372	O	GLY	89	-7.159	7.516	29.538	1.00	0.00
ATOM	1373	H	GLY	89	-8.363	4.327	28.949	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.196	6.475	30.498	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.037	6.612	28.963	1.00	0.00
ATOM	1376	N	GLY	90	-7.771	6.722	27.532	1.00	0.00
ATOM	1377	CA	GLY	90	-6.633	7.332	26.880	1.00	0.00
ATOM	1378	C	GLY	90	-6.326	6.781	25.494	1.00	0.00
ATOM	1379	O	GLY	90	-5.184	6.405	25.231	1.00	0.00
ATOM	1380	H	GLY	90	-8.424	6.208	27.012	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.765	7.191	27.506	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.819	8.392	26.790	1.00	0.00
ATOM	1383	N	PRO	91	-7.301	6.752	24.559	1.00	0.00
ATOM	1384	CA	PRO	91	-7.061	6.274	23.198	1.00	0.00
ATOM	1388	C	PRO	91	-6.390	7.343	22.338	1.00	0.00
ATOM	1389	O	PRO	91	-6.717	7.514	21.167	1.00	0.00
ATOM	1385	CB	PRO	91	-8.454	5.971	22.653	1.00	0.00
ATOM	1386	CG	PRO	91	-9.430	6.663	23.540	1.00	0.00
ATOM	1387	CD	PRO	91	-8.688	7.209	24.740	1.00	0.00
ATOM	1390	HA	PRO	91	-6.460	5.376	23.192	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.612	4.904	22.649	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.529	6.354	21.646	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.196	5.968	23.850	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.879	7.470	22.993	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.107	6.807	25.650	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.734	8.286	24.750	1.00	0.00
ATOM	1397	N	ASN	92	-5.462	8.064	22.945	1.00	0.00
ATOM	1398	CA	ASN	92	-4.739	9.135	22.274	1.00	0.00
ATOM	1403	C	ASN	92	-3.838	8.593	21.176	1.00	0.00
ATOM	1404	O	ASN	92	-3.533	7.406	21.156	1.00	0.00
ATOM	1399	CB	ASN	92	-3.906	9.911	23.288	1.00	0.00
ATOM	1400	CG	ASN	92	-3.909	11.399	23.018	1.00	0.00
ATOM	1401	OD1	ASN	92	-3.772	11.831	21.876	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.057	12.192	24.069	1.00	0.00
ATOM	1405	H	ASN	92	-5.261	7.870	23.884	1.00	0.00
ATOM	1406	HA	ASN	92	-5.464	9.801	21.833	1.00	0.00
ATOM	1407	1HB	ASN	92	-2.885	9.559	23.250	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.304	9.742	24.277	1.00	0.00



ATOM	1409	LHD2	ASN	92	-4.157	11.782	24.953	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.056	13.163	23.921	1.00	0.00
ATOM	1411	N	TRP	93	-3.406	9.474	20.276	1.00	0.00
ATOM	1412	CA	TRP	93	-2.530	9.093	19.168	1.00	0.00
ATOM	1423	C	TRP	93	-1.259	8.417	19.677	1.00	0.00
ATOM	1424	O	TRP	93	-0.679	7.583	18.989	1.00	0.00
ATOM	1413	CB	TRP	93	-2.173	10.312	18.314	1.00	0.00
ATOM	1414	CG	TRP	93	-3.329	11.238	18.075	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.500	12.481	18.614	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.477	11.003	17.243	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.676	13.030	18.168	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.291	12.148	17.328	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.900	9.942	16.432	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.495	12.263	16.640	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.099	10.064	15.748	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.879	11.217	15.857	1.00	0.00
ATOM	1425	H	TRP	93	-3.686	10.413	20.359	1.00	0.00
ATOM	1426	HA	TRP	93	-3.066	8.385	18.552	1.00	0.00
ATOM	1427	LHB	TRP	93	-1.809	9.974	17.352	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.394	10.873	18.809	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.803	12.950	19.291	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.024	13.926	18.407	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.309	9.043	16.336	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.111	13.148	16.712	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.444	9.262	15.113	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.807	11.266	15.306	1.00	0.00
ATOM	1435	N	GLY	94	-0.850	8.756	20.901	1.00	0.00
ATOM	1436	CA	GLY	94	0.327	8.143	21.484	1.00	0.00
ATOM	1437	C	GLY	94	0.091	6.668	21.742	1.00	0.00
ATOM	1438	O	GLY	94	0.973	5.832	21.557	1.00	0.00
ATOM	1439	H	GLY	94	-1.365	9.405	21.417	1.00	0.00
ATOM	1440	LHA	GLY	94	0.554	8.632	22.419	1.00	0.00
ATOM	1441	2HA	GLY	94	1.161	8.263	20.808	1.00	0.00
ATOM	1442	N	ARG	95	-1.131	6.355	22.155	1.00	0.00
ATOM	1443	CA	ARG	95	-1.532	4.987	22.424	1.00	0.00
ATOM	1451	C	ARG	95	-2.015	4.316	21.143	1.00	0.00
ATOM	1452	O	ARG	95	-1.936	3.097	21.005	1.00	0.00
ATOM	1444	CB	ARG	95	-2.638	4.962	23.484	1.00	0.00
ATOM	1445	CG	ARG	95	-2.644	3.706	24.335	1.00	0.00
ATOM	1446	CD	ARG	95	-1.424	3.637	25.236	1.00	0.00
ATOM	1447	NE	ARG	95	-1.207	2.290	25.762	1.00	0.00
ATOM	1448	CZ	ARG	95	-1.043	2.012	27.055	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.078	2.985	27.956	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.859	0.757	27.449	1.00	0.00
ATOM	1453	H	ARG	95	-1.789	7.071	22.265	1.00	0.00
ATOM	1454	HA	ARG	95	-0.671	4.452	22.788	1.00	0.00
ATOM	1455	LHB	ARG	95	-3.595	5.039	22.988	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.513	5.813	24.137	1.00	0.00
ATOM	1457	LHG	ARG	95	-2.652	2.843	23.686	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.533	3.704	24.950	1.00	0.00
ATOM	1459	LHD	ARG	95	-1.561	4.319	26.062	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.555	3.932	24.665	1.00	0.00
ATOM	1461	HE	ARG	95	-1.191	1.553	25.114	1.00	0.00
ATOM	1462	LHH1	ARG	95	-1.234	3.936	27.672	1.00	0.00
ATOM	1463	2HH1	ARG	95	-0.945	2.774	28.927	1.00	0.00
ATOM	1464	LHH2	ARG	95	-0.840	0.014	26.777	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.753	0.545	28.427	1.00	0.00
ATOM	1466	N	LEU	96	-2.509	5.133	20.213	1.00	0.00
ATOM	1467	CA	LEU	96	-3.011	4.656	18.923	1.00	0.00
ATOM	1472	C	LEU	96	-1.935	3.856	18.200	1.00	0.00
ATOM	1473	O	LEU	96	-2.227	2.913	17.455	1.00	0.00
ATOM	1468	CB	LEU	96	-3.453	5.849	18.065	1.00	0.00
ATOM	1469	CG	LEU	96	-4.611	5.598	17.087	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.093	5.580	15.659	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.342	4.300	17.406	1.00	0.00
ATOM	1474	H	LEU	96	-2.539	6.097	20.401	1.00	0.00
ATOM	1475	HA	LEU	96	-3.860	4.017	19.109	1.00	0.00
ATOM	1476	LHB	LEU	96	-2.600	6.183	17.492	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.747	6.647	18.729	1.00	0.00
ATOM	1478	HG	LEU	96	-5.320	6.409	17.169	1.00	0.00
ATOM	1479	LHD1	LEU	96	-3.354	4.801	15.553	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.645	6.535	15.428	1.00	0.00
ATOM	1481	3HD1	LEU	96	-4.913	5.393	14.980	1.00	0.00



ATOM	1482	1HD2	LEU	96	-5.320	4.127	18.471	1.00	0.00
ATOM	1483	2HD2	LEU	96	-4.858	3.479	16.898	1.00	0.00
ATOM	1484	3HD2	LEU	96	-6.368	4.375	17.074	1.00	0.00
ATOM	1485	N	VAL	97	-0.687	4.221	18.459	1.00	0.00
ATOM	1486	CA	VAL	97	0.446	3.533	17.874	1.00	0.00
ATOM	1490	C	VAL	97	0.461	2.090	18.351	1.00	0.00
ATOM	1491	O	VAL	97	0.502	1.155	17.555	1.00	0.00
ATOM	1487	CB	VAL	97	1.774	4.185	18.277	1.00	0.00
ATOM	1488	CG1	VAL	97	2.883	3.654	17.401	1.00	0.00
ATOM	1489	CG2	VAL	97	1.692	5.701	18.194	1.00	0.00
ATOM	1492	H	VAL	97	-0.527	4.960	19.090	1.00	0.00
ATOM	1493	HA	VAL	97	0.363	3.563	16.790	1.00	0.00
ATOM	1494	HB	VAL	97	1.991	3.910	19.301	1.00	0.00
ATOM	1495	1HG1	VAL	97	2.745	4.009	16.391	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.862	2.574	17.410	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.835	3.998	17.777	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.569	5.999	17.164	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.601	6.133	18.588	1.00	0.00
ATOM	1500	3HG2	VAL	97	0.849	6.049	18.773	1.00	0.00
ATOM	1501	N	ALA	98	0.407	1.933	19.670	1.00	0.00
ATOM	1502	CA	ALA	98	0.404	0.622	20.302	1.00	0.00
ATOM	1504	C	ALA	98	-0.842	-0.170	19.932	1.00	0.00
ATOM	1505	O	ALA	98	-0.805	-1.394	19.897	1.00	0.00
ATOM	1503	CB	ALA	98	0.504	0.765	21.814	1.00	0.00
ATOM	1506	H	ALA	98	0.360	2.731	20.236	1.00	0.00
ATOM	1507	HA	ALA	98	1.275	0.085	19.958	1.00	0.00
ATOM	1508	1HB	ALA	98	0.598	-0.214	22.262	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.386	1.249	22.190	1.00	0.00
ATOM	1510	3HB	ALA	98	1.370	1.360	22.063	1.00	0.00
ATOM	1511	N	PHE	99	-1.937	0.531	19.651	1.00	0.00
ATOM	1512	CA	PHE	99	-3.187	-0.116	19.276	1.00	0.00
ATOM	1520	C	PHE	99	-2.979	-0.990	18.044	1.00	0.00
ATOM	1521	O	PHE	99	-3.243	-2.193	18.067	1.00	0.00
ATOM	1513	CB	PHE	99	-4.264	0.934	18.969	1.00	0.00
ATOM	1514	CG	PHE	99	-5.122	1.358	20.136	1.00	0.00
ATOM	1515	CD1	PHE	99	-6.043	0.490	20.707	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.026	2.644	20.641	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.841	0.902	21.763	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.822	3.062	21.689	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.731	2.193	22.253	1.00	0.00
ATOM	1522	H	PHE	99	-1.904	1.509	19.692	1.00	0.00
ATOM	1523	HA	PHE	99	-3.502	-0.738	20.095	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.915	0.543	18.206	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.780	1.821	18.587	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.314	3.329	20.203	1.00	0.00
ATOM	1527	HD2	PHE	99	-6.130	-0.517	20.326	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.731	4.069	22.069	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.552	0.216	22.202	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.359	2.526	23.071	1.00	0.00
ATOM	1531	N	PHE	100	-2.498	-0.374	16.970	1.00	0.00
ATOM	1532	CA	PHE	100	-2.257	-1.099	15.728	1.00	0.00
ATOM	1540	C	PHE	100	-1.007	-1.961	15.835	1.00	0.00
ATOM	1541	O	PHE	100	-0.978	-3.089	15.340	1.00	0.00
ATOM	1533	CB	PHE	100	-2.118	-0.132	14.548	1.00	0.00
ATOM	1534	CG	PHE	100	-3.425	0.193	13.884	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.355	1.004	14.511	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.725	-0.317	12.630	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.559	1.299	13.903	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.928	-0.023	12.018	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.847	0.786	12.656	1.00	0.00
ATOM	1542	H	PHE	100	-2.304	0.591	17.015	1.00	0.00
ATOM	1543	HA	PHE	100	-3.107	-1.742	15.555	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.471	-0.578	13.807	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.680	0.791	14.892	1.00	0.00
ATOM	1546	HD1	PHE	100	-4.132	1.409	15.488	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.007	-0.948	12.128	1.00	0.00
ATOM	1548	HE1	PHE	100	-6.276	1.933	14.404	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.150	-0.427	11.041	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.789	1.015	12.182	1.00	0.00
ATOM	1551	N	VAL	101	0.022	-1.421	16.477	1.00	0.00
ATOM	1552	CA	VAL	101	1.284	-2.129	16.645	1.00	0.00
ATOM	1556	C	VAL	101	1.089	-3.450	17.391	1.00	0.00
ATOM	1557	O	VAL	101	1.719	-4.451	17.046	1.00	0.00



ATOM	1553	CB	VAL	101	2.331	-1.248	17.379	1.00	0.00
ATOM	1554	CG1	VAL	101	3.347	-2.088	18.146	1.00	0.00
ATOM	1555	CG2	VAL	101	3.042	-0.339	16.388	1.00	0.00
ATOM	1558	H	VAL	101	-0.067	-0.513	16.844	1.00	0.00
ATOM	1559	HA	VAL	101	1.668	-2.347	15.658	1.00	0.00
ATOM	1560	HB	VAL	101	1.808	-0.624	18.089	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.946	-1.445	18.774	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.986	-2.607	17.445	1.00	0.00
ATOM	1563	3HG1	VAL	101	2.826	-2.808	18.760	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.747	0.686	16.563	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.773	-0.622	15.380	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.110	-0.431	16.515	1.00	0.00
ATOM	1567	N	PHE	102	0.215	-3.459	18.399	1.00	0.00
ATOM	1568	CA	PHE	102	-0.037	-4.672	19.171	1.00	0.00
ATOM	1576	C	PHE	102	-0.493	-5.812	18.272	1.00	0.00
ATOM	1577	O	PHE	102	0.057	-6.910	18.325	1.00	0.00
ATOM	1569	CB	PHE	102	-1.088	-4.420	20.256	1.00	0.00
ATOM	1570	CG	PHE	102	-0.510	-4.196	21.624	1.00	0.00
ATOM	1571	CD1	PHE	102	0.860	-4.086	21.809	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.340	-4.090	22.726	1.00	0.00
ATOM	1573	CE1	PHE	102	1.389	-3.876	23.067	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.818	-3.880	23.987	1.00	0.00
ATOM	1575	CZ	PHE	102	0.548	-3.772	24.159	1.00	0.00
ATOM	1578	H	PHE	102	-0.274	-2.628	18.633	1.00	0.00
ATOM	1579	HA	PHE	102	0.891	-4.959	19.642	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.749	-5.273	20.311	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.663	-3.545	19.995	1.00	0.00
ATOM	1582	HD1	PHE	102	1.519	-4.168	20.956	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.409	-4.176	22.592	1.00	0.00
ATOM	1584	HE1	PHE	102	2.457	-3.793	23.198	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.479	-3.800	24.838	1.00	0.00
ATOM	1586	HZ	PHE	102	0.959	-3.608	25.144	1.00	0.00
ATOM	1587	N	GLY	103	-1.496	-5.550	17.449	1.00	0.00
ATOM	1588	CA	GLY	103	-2.001	-6.575	16.561	1.00	0.00
ATOM	1589	C	GLY	103	-1.094	-6.841	15.377	1.00	0.00
ATOM	1590	O	GLY	103	-0.942	-7.987	14.965	1.00	0.00
ATOM	1591	H	GLY	103	-1.898	-4.654	17.449	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.968	-6.280	16.197	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.111	-7.492	17.121	1.00	0.00
ATOM	1594	N	ALA	104	-0.493	-5.793	14.826	1.00	0.00
ATOM	1595	CA	ALA	104	0.402	-5.938	13.679	1.00	0.00
ATOM	1597	C	ALA	104	1.604	-6.797	14.038	1.00	0.00
ATOM	1598	O	ALA	104	1.978	-7.700	13.289	1.00	0.00
ATOM	1596	CB	ALA	104	0.852	-4.575	13.176	1.00	0.00
ATOM	1599	H	ALA	104	-0.653	-4.897	15.198	1.00	0.00
ATOM	1600	HA	ALA	104	-0.149	-6.429	12.885	1.00	0.00
ATOM	1601	1HB	ALA	104	0.404	-4.380	12.213	1.00	0.00
ATOM	1602	2HB	ALA	104	1.927	-4.562	13.083	1.00	0.00
ATOM	1603	3HB	ALA	104	0.543	-3.814	13.878	1.00	0.00
ATOM	1604	N	ALA	105	2.195	-6.535	15.196	1.00	0.00
ATOM	1605	CA	ALA	105	3.334	-7.312	15.643	1.00	0.00
ATOM	1607	C	ALA	105	2.881	-8.728	15.976	1.00	0.00
ATOM	1608	O	ALA	105	3.571	-9.704	15.675	1.00	0.00
ATOM	1606	CB	ALA	105	3.997	-6.653	16.843	1.00	0.00
ATOM	1609	H	ALA	105	1.845	-5.813	15.771	1.00	0.00
ATOM	1610	HA	ALA	105	4.051	-7.353	14.835	1.00	0.00
ATOM	1611	1HB	ALA	105	3.461	-5.751	17.100	1.00	0.00
ATOM	1612	2HB	ALA	105	5.021	-6.407	16.599	1.00	0.00
ATOM	1613	3HB	ALA	105	3.981	-7.333	17.682	1.00	0.00
ATOM	1614	N	LEU	106	1.697	-8.823	16.580	1.00	0.00
ATOM	1615	CA	LEU	106	1.110	-10.106	16.947	1.00	0.00
ATOM	1620	C	LEU	106	0.931	-10.975	15.707	1.00	0.00
ATOM	1621	O	LEU	106	1.229	-12.168	15.714	1.00	0.00
ATOM	1616	CB	LEU	106	-0.245	-9.875	17.627	1.00	0.00
ATOM	1617	CG	LEU	106	-0.503	-10.704	18.885	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.973	-9.808	20.021	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.529	-11.792	18.608	1.00	0.00
ATOM	1622	H	LEU	106	1.194	-8.000	16.773	1.00	0.00
ATOM	1623	HA	LEU	106	1.778	-10.599	17.634	1.00	0.00
ATOM	1624	1HB	LEU	106	-1.028	-10.082	16.913	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.305	-8.830	17.898	1.00	0.00
ATOM	1626	HG	LEU	106	0.417	-11.178	19.191	1.00	0.00
ATOM	1627	1HD1	LEU	106	-2.024	-9.592	19.898	1.00	0.00



ATOM	1628	2HD1	LEU	106	-0.412	-8.885	20.006	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.816	-10.310	20.963	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.095	-12.758	18.819	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.827	-11.749	17.571	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.395	-11.639	19.238	1.00	0.00
ATOM	1633	N	CYS	107	0.450	-10.348	14.648	1.00	0.00
ATOM	1634	CA	CYS	107	0.215	-11.014	13.375	1.00	0.00
ATOM	1637	C	CYS	107	1.521	-11.484	12.744	1.00	0.00
ATOM	1638	O	CYS	107	1.598	-12.596	12.227	1.00	0.00
ATOM	1635	CB	CYS	107	-0.521	-10.062	12.432	1.00	0.00
ATOM	1636	SG	CYS	107	-2.217	-9.696	12.936	1.00	0.00
ATOM	1639	H	CYS	107	0.243	-9.393	14.725	1.00	0.00
ATOM	1640	HA	CYS	107	-0.407	-11.874	13.557	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.555	-10.493	11.445	1.00	0.00
ATOM	1642	2HB	CYS	107	0.016	-9.126	12.389	1.00	0.00
ATOM	1643	HG	CYS	107	-2.157	-8.967	14.044	1.00	0.00
ATOM	1644	N	ALA	108	2.542	-10.637	12.790	1.00	0.00
ATOM	1645	CA	ALA	108	3.844	-10.968	12.219	1.00	0.00
ATOM	1647	C	ALA	108	4.392	-12.267	12.804	1.00	0.00
ATOM	1648	O	ALA	108	4.888	-13.129	12.077	1.00	0.00
ATOM	1646	CB	ALA	108	4.825	-9.828	12.447	1.00	0.00
ATOM	1649	H	ALA	108	2.418	-9.761	13.217	1.00	0.00
ATOM	1650	HA	ALA	108	3.717	-11.092	11.154	1.00	0.00
ATOM	1651	1HB	ALA	108	5.819	-10.145	12.169	1.00	0.00
ATOM	1652	2HB	ALA	108	4.816	-9.548	13.490	1.00	0.00
ATOM	1653	3HB	ALA	108	4.536	-8.978	11.845	1.00	0.00
ATOM	1654	N	GLU	109	4.289	-12.407	14.119	1.00	0.00
ATOM	1655	CA	GLU	109	4.775	-13.602	14.795	1.00	0.00
ATOM	1661	C	GLU	109	3.780	-14.754	14.695	1.00	0.00
ATOM	1662	O	GLU	109	4.100	-15.888	15.051	1.00	0.00
ATOM	1656	CB	GLU	109	5.078	-13.302	16.261	1.00	0.00
ATOM	1657	CG	GLU	109	6.563	-13.190	16.554	1.00	0.00
ATOM	1658	CD	GLU	109	6.973	-13.964	17.789	1.00	0.00
ATOM	1659	OE1	GLU	109	6.097	-14.598	18.415	1.00	0.00
ATOM	1660	OE2	GLU	109	8.175	-13.958	18.121	1.00	0.00
ATOM	1663	H	GLU	109	3.878	-11.688	14.649	1.00	0.00
ATOM	1664	HA	GLU	109	5.690	-13.901	14.305	1.00	0.00
ATOM	1665	1HB	GLU	109	4.670	-14.094	16.871	1.00	0.00
ATOM	1666	2HB	GLU	109	4.605	-12.369	16.532	1.00	0.00
ATOM	1667	1HG	GLU	109	6.810	-12.149	16.699	1.00	0.00
ATOM	1668	2HG	GLU	109	7.113	-13.575	15.708	1.00	0.00
ATOM	1669	N	SER	110	2.584	-14.471	14.210	1.00	0.00
ATOM	1670	CA	SER	110	1.569	-15.501	14.066	1.00	0.00
ATOM	1673	C	SER	110	1.652	-16.135	12.679	1.00	0.00
ATOM	1674	O	SER	110	1.223	-17.269	12.476	1.00	0.00
ATOM	1671	CB	SER	110	0.178	-14.915	14.312	1.00	0.00
ATOM	1672	OG	SER	110	0.019	-14.545	15.670	1.00	0.00
ATOM	1675	H	SER	110	2.379	-13.550	13.939	1.00	0.00
ATOM	1676	HA	SER	110	1.765	-16.262	14.806	1.00	0.00
ATOM	1677	1HB	SER	110	-0.571	-15.652	14.061	1.00	0.00
ATOM	1678	2HB	SER	110	0.044	-14.039	13.694	1.00	0.00
ATOM	1679	HG	SER	110	0.472	-13.706	15.829	1.00	0.00
ATOM	1680	N	VAL	111	2.219	-15.396	11.731	1.00	0.00
ATOM	1681	CA	VAL	111	2.368	-15.887	10.365	1.00	0.00
ATOM	1685	C	VAL	111	3.486	-16.927	10.285	1.00	0.00
ATOM	1686	O	VAL	111	3.405	-17.882	9.511	1.00	0.00
ATOM	1682	CB	VAL	111	2.665	-14.732	9.375	1.00	0.00
ATOM	1683	CG1	VAL	111	2.983	-15.266	7.986	1.00	0.00
ATOM	1684	CG2	VAL	111	1.491	-13.770	9.310	1.00	0.00
ATOM	1687	H	VAL	111	2.548	-14.499	11.955	1.00	0.00
ATOM	1688	HA	VAL	111	1.438	-16.352	10.075	1.00	0.00
ATOM	1689	HB	VAL	111	3.528	-14.190	9.733	1.00	0.00
ATOM	1690	1HG1	VAL	111	2.064	-15.522	7.479	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.603	-16.147	8.071	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.507	-14.511	7.421	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.663	-12.946	9.987	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.586	-14.286	9.591	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.391	-13.392	8.302	1.00	0.00
ATOM	1696	N	ASN	112	4.528	-16.743	11.090	1.00	0.00
ATOM	1697	CA	ASN	112	5.653	-17.677	11.095	1.00	0.00
ATOM	1702	C	ASN	112	5.386	-18.862	12.020	1.00	0.00
ATOM	1703	O	ASN	112	6.224	-19.755	12.161	1.00	0.00
ATOM	1698	CB	ASN	112	6.961	-16.967	11.493	1.00	0.00



ATOM	1699	CG	ASN	112	6.931	-16.356	12.886	1.00	0.00
ATOM	1700	OD1	ASN	112	6.723	-17.041	13.886	1.00	0.00
ATOM	1701	ND2	ASN	112	7.151	-15.051	12.961	1.00	0.00
ATOM	1704	H	ASN	112	4.541	-15.966	11.692	1.00	0.00
ATOM	1705	HA	ASN	112	5.761	-18.053	10.088	1.00	0.00
ATOM	1706	1HB	ASN	112	7.158	-16.178	10.781	1.00	0.00
ATOM	1707	2HB	ASN	112	7.769	-17.681	11.459	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.317	-14.559	12.128	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.144	-14.630	13.847	1.00	0.00
ATOM	1710	N	LYS	113	4.214	-18.869	12.638	1.00	0.00
ATOM	1711	CA	LYS	113	3.831	-19.943	13.541	1.00	0.00
ATOM	1717	C	LYS	113	2.504	-20.558	13.109	1.00	0.00
ATOM	1718	O	LYS	113	1.955	-20.199	12.067	1.00	0.00
ATOM	1712	CB	LYS	113	3.721	-19.411	14.971	1.00	0.00
ATOM	1713	CG	LYS	113	5.004	-19.538	15.774	1.00	0.00
ATOM	1714	CD	LYS	113	4.786	-19.155	17.229	1.00	0.00
ATOM	1715	CE	LYS	113	5.622	-17.948	17.621	1.00	0.00
ATOM	1716	NZ	LYS	113	4.828	-16.692	17.585	1.00	0.00
ATOM	1719	H	LYS	113	3.584	-18.136	12.477	1.00	0.00
ATOM	1720	HA	LYS	113	4.598	-20.701	13.504	1.00	0.00
ATOM	1721	1HB	LYS	113	2.943	-19.956	15.488	1.00	0.00
ATOM	1722	2HB	LYS	113	3.449	-18.366	14.933	1.00	0.00
ATOM	1723	1HG	LYS	113	5.750	-18.885	15.347	1.00	0.00
ATOM	1724	2HG	LYS	113	5.347	-20.560	15.728	1.00	0.00
ATOM	1725	1HD	LYS	113	5.061	-19.991	17.856	1.00	0.00
ATOM	1726	2HD	LYS	113	3.742	-18.921	17.377	1.00	0.00
ATOM	1727	1HE	LYS	113	6.450	-17.861	16.932	1.00	0.00
ATOM	1728	2HE	LYS	113	6.000	-18.096	18.621	1.00	0.00
ATOM	1729	1HZ	LYS	113	4.588	-16.447	16.601	1.00	0.00
ATOM	1730	2HZ	LYS	113	5.380	-15.903	18.002	1.00	0.00
ATOM	1731	3HZ	LYS	113	3.952	-16.805	18.128	1.00	0.00
ATOM	1732	N	GLU	114	1.989	-21.480	13.912	1.00	0.00
ATOM	1733	CA	GLU	114	0.723	-22.139	13.610	1.00	0.00
ATOM	1739	C	GLU	114	-0.451	-21.277	14.066	1.00	0.00
ATOM	1740	O	GLU	114	-1.225	-21.669	14.938	1.00	0.00
ATOM	1734	CB	GLU	114	0.655	-23.507	14.292	1.00	0.00
ATOM	1735	CG	GLU	114	1.932	-24.323	14.167	1.00	0.00
ATOM	1736	CD	GLU	114	2.064	-25.357	15.267	1.00	0.00
ATOM	1737	OE1	GLU	114	1.360	-26.386	15.203	1.00	0.00
ATOM	1738	OE2	GLU	114	2.862	-25.136	16.201	1.00	0.00
ATOM	1741	H	GLU	114	2.467	-21.722	14.730	1.00	0.00
ATOM	1742	HA	GLU	114	0.664	-22.275	12.541	1.00	0.00
ATOM	1743	1HB	GLU	114	-0.151	-24.075	13.854	1.00	0.00
ATOM	1744	2HB	GLU	114	0.451	-23.362	15.343	1.00	0.00
ATOM	1745	1HG	GLU	114	2.778	-23.654	14.218	1.00	0.00
ATOM	1746	2HG	GLU	114	1.931	-24.830	13.214	1.00	0.00
ATOM	1747	N	MET	115	-0.569	-20.092	13.483	1.00	0.00
ATOM	1748	CA	MET	115	-1.639	-19.169	13.840	1.00	0.00
ATOM	1753	C	MET	115	-2.265	-18.568	12.587	1.00	0.00
ATOM	1754	O	MET	115	-2.489	-17.360	12.510	1.00	0.00
ATOM	1749	CB	MET	115	-1.098	-18.058	14.744	1.00	0.00
ATOM	1750	CG	MET	115	-0.899	-18.484	16.188	1.00	0.00
ATOM	1751	SD	MET	115	0.837	-18.475	16.682	1.00	0.00
ATOM	1752	CE	MET	115	0.954	-20.054	17.521	1.00	0.00
ATOM	1755	H	MET	115	0.088	-19.825	12.800	1.00	0.00
ATOM	1756	HA	MET	115	-2.393	-19.725	14.376	1.00	0.00
ATOM	1757	1HB	MET	115	-1.792	-17.230	14.728	1.00	0.00
ATOM	1758	2HB	MET	115	-0.147	-17.726	14.355	1.00	0.00
ATOM	1759	1HG	MET	115	-1.288	-19.485	16.309	1.00	0.00
ATOM	1760	2HG	MET	115	-1.444	-17.808	16.828	1.00	0.00
ATOM	1761	1HE	MET	115	0.093	-20.656	17.276	1.00	0.00
ATOM	1762	2HE	MET	115	0.989	-19.893	18.588	1.00	0.00
ATOM	1763	3HE	MET	115	1.852	-20.564	17.205	1.00	0.00
ATOM	1764	N	GLU	116	-2.537	-19.427	11.608	1.00	0.00
ATOM	1765	CA	GLU	116	-3.128	-19.009	10.336	1.00	0.00
ATOM	1771	C	GLU	116	-4.406	-18.172	10.524	1.00	0.00
ATOM	1772	O	GLU	116	-4.463	-17.029	10.068	1.00	0.00
ATOM	1766	CB	GLU	116	-3.416	-20.228	9.451	1.00	0.00
ATOM	1767	CG	GLU	116	-2.219	-20.705	8.646	1.00	0.00
ATOM	1768	CD	GLU	116	-2.595	-21.757	7.622	1.00	0.00
ATOM	1769	OE1	GLU	116	-3.397	-21.447	6.712	1.00	0.00
ATOM	1770	OE2	GLU	116	-2.100	-22.897	7.725	1.00	0.00
ATOM	1773	H	GLU	116	-2.325	-20.375	11.742	1.00	0.00



ATOM	1774	HA	GLU	116	-2.397	-18.392	9.835	1.00	0.00
ATOM	1775	1HB	GLU	116	-4.208	-19.976	8.762	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.745	-21.043	10.079	1.00	0.00
ATOM	1777	1HG	GLU	116	-1.488	-21.125	9.322	1.00	0.00
ATOM	1778	2HG	GLU	116	-1.788	-19.860	8.130	1.00	0.00
ATOM	1779	N	PRO	117	-5.461	-18.710	11.183	1.00	0.00
ATOM	1780	CA	PRO	117	-6.714	-17.973	11.384	1.00	0.00
ATOM	1784	C	PRO	117	-6.591	-16.885	12.446	1.00	0.00
ATOM	1785	O	PRO	117	-7.373	-15.936	12.471	1.00	0.00
ATOM	1781	CB	PRO	117	-7.711	-19.051	11.846	1.00	0.00
ATOM	1782	CG	PRO	117	-7.008	-20.358	11.669	1.00	0.00
ATOM	1783	CD	PRO	117	-5.544	-20.055	11.769	1.00	0.00
ATOM	1786	HA	PRO	117	-7.063	-17.531	10.462	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.603	-19.001	11.239	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.969	-18.882	12.881	1.00	0.00
ATOM	1789	1HG	PRO	117	-7.241	-20.771	10.698	1.00	0.00
ATOM	1790	2HG	PRO	117	-7.304	-21.042	12.450	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.968	-20.764	11.194	1.00	0.00
ATOM	1792	2HD	PRO	117	-5.227	-20.050	12.801	1.00	0.00
ATOM	1793	N	LEU	118	-5.608	-17.034	13.325	1.00	0.00
ATOM	1794	CA	LEU	118	-5.390	-16.074	14.400	1.00	0.00
ATOM	1799	C	LEU	118	-4.999	-14.705	13.850	1.00	0.00
ATOM	1800	O	LEU	118	-5.419	-13.682	14.383	1.00	0.00
ATOM	1795	CB	LEU	118	-4.317	-16.587	15.366	1.00	0.00
ATOM	1796	CG	LEU	118	-4.833	-17.432	16.537	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.959	-16.709	17.264	1.00	0.00
ATOM	1798	CD2	LEU	118	-5.294	-18.800	16.048	1.00	0.00
ATOM	1801	H	LEU	118	-5.021	-17.813	13.252	1.00	0.00
ATOM	1802	HA	LEU	118	-6.320	-15.973	14.938	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.794	-15.736	15.773	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.613	-17.184	14.803	1.00	0.00
ATOM	1805	HG	LEU	118	-4.028	-17.583	17.242	1.00	0.00
ATOM	1806	1HD1	LEU	118	-6.364	-17.351	18.032	1.00	0.00
ATOM	1807	2HD1	LEU	118	-6.737	-16.454	16.561	1.00	0.00
ATOM	1808	3HD1	LEU	118	-5.574	-15.806	17.716	1.00	0.00
ATOM	1809	1HD2	LEU	118	-5.555	-19.417	16.897	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.496	-19.271	15.493	1.00	0.00
ATOM	1811	3HD2	LEU	118	-6.157	-18.683	15.410	1.00	0.00
ATOM	1812	N	VAL	119	-4.206	-14.695	12.783	1.00	0.00
ATOM	1813	CA	VAL	119	-3.766	-13.444	12.161	1.00	0.00
ATOM	1817	C	VAL	119	-4.963	-12.594	11.740	1.00	0.00
ATOM	1818	O	VAL	119	-5.081	-11.431	12.134	1.00	0.00
ATOM	1814	CB	VAL	119	-2.873	-13.710	10.927	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.514	-12.410	10.220	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.616	-14.464	11.330	1.00	0.00
ATOM	1819	H	VAL	119	-3.908	-15.548	12.400	1.00	0.00
ATOM	1820	HA	VAL	119	-3.188	-12.892	12.889	1.00	0.00
ATOM	1821	HB	VAL	119	-3.427	-14.327	10.234	1.00	0.00
ATOM	1822	1HG1	VAL	119	-2.236	-11.667	10.953	1.00	0.00
ATOM	1823	2HG1	VAL	119	-3.365	-12.060	9.656	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.684	-12.582	9.549	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.891	-15.354	11.878	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.002	-13.832	11.954	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.064	-14.743	10.445	1.00	0.00
ATOM	1828	N	GLY	120	-5.855	-13.182	10.950	1.00	0.00
ATOM	1829	CA	GLY	120	-7.032	-12.462	10.502	1.00	0.00
ATOM	1830	C	GLY	120	-7.944	-12.100	11.651	1.00	0.00
ATOM	1831	O	GLY	120	-8.596	-11.056	11.627	1.00	0.00
ATOM	1832	H	GLY	120	-5.715	-14.112	10.674	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.576	-13.070	9.801	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.718	-11.555	10.006	1.00	0.00
ATOM	1835	N	GLN	121	-7.975	-12.951	12.669	1.00	0.00
ATOM	1836	CA	GLN	121	-8.795	-12.699	13.838	1.00	0.00
ATOM	1842	C	GLN	121	-8.279	-11.470	14.569	1.00	0.00
ATOM	1843	O	GLN	121	-9.027	-10.546	14.826	1.00	0.00
ATOM	1837	CB	GLN	121	-8.805	-13.905	14.774	1.00	0.00
ATOM	1838	CG	GLN	121	-9.857	-14.941	14.423	1.00	0.00
ATOM	1839	CD	GLN	121	-10.798	-15.224	15.577	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.474	-15.988	16.486	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.958	-14.589	15.563	1.00	0.00
ATOM	1844	H	GLN	121	-7.423	-13.758	12.636	1.00	0.00
ATOM	1845	HA	GLN	121	-9.802	-12.503	13.501	1.00	0.00
ATOM	1846	1HB	GLN	121	-8.997	-13.559	15.780	1.00	0.00



ATOM	1847	2HB	GLN	121	-7.838	-14.375	14.747	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.361	-15.860	14.146	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.435	-14.579	13.586	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.143	-13.968	14.811	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.596	-14.772	16.285	1.00	0.00
ATOM	1852	N	VAL	122	-6.991	-11.442	14.878	1.00	0.00
ATOM	1853	CA	VAL	122	-6.409	-10.288	15.557	1.00	0.00
ATOM	1857	C	VAL	122	-6.676	-9.024	14.746	1.00	0.00
ATOM	1858	O	VAL	122	-6.919	-7.952	15.302	1.00	0.00
ATOM	1854	CB	VAL	122	-4.885	-10.455	15.772	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.292	-9.234	16.459	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.588	-11.710	16.577	1.00	0.00
ATOM	1859	H	VAL	122	-6.415	-12.202	14.632	1.00	0.00
ATOM	1860	HA	VAL	122	-6.894	-10.185	16.524	1.00	0.00
ATOM	1861	HB	VAL	122	-4.415	-10.559	14.803	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.974	-8.402	16.366	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.350	-8.982	15.994	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.131	-9.452	17.504	1.00	0.00
ATOM	1865	1HG2	VAL	122	-3.543	-11.723	16.847	1.00	0.00
ATOM	1866	2HG2	VAL	122	-4.817	-12.581	15.982	1.00	0.00
ATOM	1867	3HG2	VAL	122	-5.193	-11.716	17.473	1.00	0.00
ATOM	1868	N	GLN	123	-6.663	-9.174	13.428	1.00	0.00
ATOM	1869	CA	GLN	123	-6.932	-8.065	12.530	1.00	0.00
ATOM	1875	C	GLN	123	-8.356	-7.556	12.727	1.00	0.00
ATOM	1876	O	GLN	123	-8.581	-6.351	12.852	1.00	0.00
ATOM	1870	CB	GLN	123	-6.722	-8.494	11.077	1.00	0.00
ATOM	1871	CG	GLN	123	-6.280	-7.359	10.170	1.00	0.00
ATOM	1872	CD	GLN	123	-6.534	-7.654	8.707	1.00	0.00
ATOM	1873	OE1	GLN	123	-7.657	-7.521	8.220	1.00	0.00
ATOM	1874	NE2	GLN	123	-5.492	-8.058	7.996	1.00	0.00
ATOM	1877	H	GLN	123	-6.485	-10.063	13.052	1.00	0.00
ATOM	1878	HA	GLN	123	-6.243	-7.269	12.769	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.651	-8.894	10.693	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.970	-9.271	11.044	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.223	-7.191	10.311	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.825	-6.468	10.441	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.628	-8.143	8.450	1.00	0.00
ATOM	1884	2HE2	GLN	123	-5.631	-8.262	7.049	1.00	0.00
ATOM	1885	N	GLU	124	-9.314	-8.478	12.766	1.00	0.00
ATOM	1886	CA	GLU	124	-10.709	-8.109	12.955	1.00	0.00
ATOM	1892	C	GLU	124	-10.967	-7.663	14.392	1.00	0.00
ATOM	1893	O	GLU	124	-11.712	-6.712	14.610	1.00	0.00
ATOM	1887	CB	GLU	124	-11.649	-9.253	12.561	1.00	0.00
ATOM	1888	CG	GLU	124	-11.432	-10.525	13.350	1.00	0.00
ATOM	1889	CD	GLU	124	-12.506	-11.569	13.116	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.506	-11.260	12.428	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.353	-12.705	13.618	1.00	0.00
ATOM	1894	H	GLU	124	-9.074	-9.428	12.669	1.00	0.00
ATOM	1895	HA	GLU	124	-10.904	-7.268	12.306	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.505	-9.474	11.513	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.669	-8.931	12.714	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.407	-10.280	14.402	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.477	-10.942	13.067	1.00	0.00
ATOM	1900	N	TRP	125	-10.335	-8.319	15.373	1.00	0.00
ATOM	1901	CA	TRP	125	-10.513	-7.927	16.772	1.00	0.00
ATOM	1912	C	TRP	125	-10.101	-6.474	16.930	1.00	0.00
ATOM	1913	O	TRP	125	-10.734	-5.697	17.646	1.00	0.00
ATOM	1902	CB	TRP	125	-9.642	-8.754	17.740	1.00	0.00
ATOM	1903	CG	TRP	125	-9.749	-10.253	17.658	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.756	-11.011	17.127	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.771	-11.178	18.147	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.448	-12.347	17.245	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.233	-12.472	17.860	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.540	-11.032	18.792	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.505	-13.615	18.190	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.821	-12.163	19.124	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.303	-13.440	18.817	1.00	0.00
ATOM	1914	H	TRP	125	-9.727	-9.067	15.151	1.00	0.00
ATOM	1915	HA	TRP	125	-11.557	-8.028	17.026	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.878	-8.465	18.748	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.609	-8.507	17.553	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.648	-10.610	16.679	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.009	-13.091	16.937	1.00	0.00



ATOM	1920	HE3	TRP	125	-7.158	-10.053	19.052	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.863	-14.607	17.960	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.867	-12.066	19.620	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.711	-14.298	19.106	1.00	0.00
ATOM	1924	N	MET	126	-9.017	-6.131	16.254	1.00	0.00
ATOM	1925	CA	MET	126	-8.475	-4.784	16.311	1.00	0.00
ATOM	1930	C	MET	126	-9.334	-3.797	15.533	1.00	0.00
ATOM	1931	O	MET	126	-9.702	-2.742	16.049	1.00	0.00
ATOM	1926	CB	MET	126	-7.046	-4.769	15.767	1.00	0.00
ATOM	1927	CG	MET	126	-6.237	-3.560	16.204	1.00	0.00
ATOM	1928	SD	MET	126	-5.195	-2.913	14.882	1.00	0.00
ATOM	1929	CE	MET	126	-4.166	-4.335	14.523	1.00	0.00
ATOM	1932	H	MET	126	-8.560	-6.816	15.702	1.00	0.00
ATOM	1933	HA	MET	126	-8.456	-4.482	17.345	1.00	0.00
ATOM	1934	1HB	MET	126	-7.085	-4.777	14.688	1.00	0.00
ATOM	1935	2HB	MET	126	-6.536	-5.657	16.107	1.00	0.00
ATOM	1936	1HG	MET	126	-5.608	-3.844	17.035	1.00	0.00
ATOM	1937	2HG	MET	126	-6.918	-2.782	16.519	1.00	0.00
ATOM	1938	1HE	MET	126	-4.485	-4.785	13.594	1.00	0.00
ATOM	1939	2HE	MET	126	-4.256	-5.056	15.322	1.00	0.00
ATOM	1940	3HE	MET	126	-3.137	-4.020	14.435	1.00	0.00
ATOM	1941	N	VAL	127	-9.635	-4.130	14.287	1.00	0.00
ATOM	1942	CA	VAL	127	-10.426	-3.247	13.443	1.00	0.00
ATOM	1946	C	VAL	127	-11.840	-3.032	13.986	1.00	0.00
ATOM	1947	O	VAL	127	-12.385	-1.940	13.849	1.00	0.00
ATOM	1943	CB	VAL	127	-10.479	-3.733	11.971	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.470	-4.872	11.782	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.816	-2.575	11.044	1.00	0.00
ATOM	1948	H	VAL	127	-9.302	-4.980	13.920	1.00	0.00
ATOM	1949	HA	VAL	127	-9.926	-2.288	13.445	1.00	0.00
ATOM	1950	HB	VAL	127	-9.498	-4.098	11.702	1.00	0.00
ATOM	1951	1HG1	VAL	127	-10.954	-5.816	11.873	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.920	-4.799	10.803	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.240	-4.809	12.538	1.00	0.00
ATOM	1954	1HG2	VAL	127	-9.902	-2.095	10.721	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.432	-1.859	11.569	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.350	-2.947	10.182	1.00	0.00
ATOM	1957	N	GLU	128	-12.434	-4.051	14.608	1.00	0.00
ATOM	1958	CA	GLU	128	-13.782	-3.906	15.145	1.00	0.00
ATOM	1964	C	GLU	128	-13.771	-3.044	16.399	1.00	0.00
ATOM	1965	O	GLU	128	-14.646	-2.207	16.598	1.00	0.00
ATOM	1959	CB	GLU	128	-14.411	-5.273	15.424	1.00	0.00
ATOM	1960	CG	GLU	128	-14.717	-6.054	14.154	1.00	0.00
ATOM	1961	CD	GLU	128	-15.793	-7.107	14.338	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.587	-7.002	15.296	1.00	0.00
ATOM	1963	OE2	GLU	128	-15.861	-8.039	13.509	1.00	0.00
ATOM	1966	H	GLU	128	-11.960	-4.917	14.707	1.00	0.00
ATOM	1967	HA	GLU	128	-14.370	-3.398	14.397	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.334	-5.132	15.966	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.730	-5.856	16.028	1.00	0.00
ATOM	1970	1HG	GLU	128	-13.811	-6.543	13.822	1.00	0.00
ATOM	1971	2HG	GLU	128	-15.045	-5.362	13.393	1.00	0.00
ATOM	1972	N	TYR	129	-12.761	-3.225	17.233	1.00	0.00
ATOM	1973	CA	TYR	129	-12.645	-2.433	18.446	1.00	0.00
ATOM	1982	C	TYR	129	-12.381	-0.973	18.096	1.00	0.00
ATOM	1983	O	TYR	129	-12.824	-0.051	18.787	1.00	0.00
ATOM	1974	CB	TYR	129	-11.507	-2.959	19.319	1.00	0.00
ATOM	1975	CG	TYR	129	-11.646	-2.579	20.774	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.143	-1.372	21.242	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.291	-3.415	21.675	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.278	-1.009	22.565	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.434	-3.057	23.001	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.923	-1.853	23.440	1.00	0.00
ATOM	1981	OH	TYR	129	-12.074	-1.483	24.755	1.00	0.00
ATOM	1984	H	TYR	129	-12.072	-3.894	17.024	1.00	0.00
ATOM	1985	HA	TYR	129	-13.576	-2.506	18.989	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.571	-2.559	18.959	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.481	-4.035	19.252	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.688	-4.357	21.327	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.637	-0.711	20.553	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.937	-3.720	23.689	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.879	-0.068	22.910	1.00	0.00
ATOM	1992	HH	TYR	129	-12.515	-2.198	25.247	1.00	0.00



ATOM	1993	N	LEU	130	-11.638	-0.777	17.022	1.00	0.00
ATOM	1994	CA	LEU	130	-11.277	0.556	16.577	1.00	0.00
ATOM	1999	C	LEU	130	-12.417	1.268	15.855	1.00	0.00
ATOM	2000	O	LEU	130	-12.752	2.397	16.194	1.00	0.00
ATOM	1995	CB	LEU	130	-10.055	0.506	15.667	1.00	0.00
ATOM	1996	CG	LEU	130	-8.763	1.018	16.299	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.697	-0.065	16.294	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.276	2.261	15.568	1.00	0.00
ATOM	2001	H	LEU	130	-11.307	-1.561	16.525	1.00	0.00
ATOM	2002	HA	LEU	130	-11.019	1.131	17.455	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.265	1.107	14.798	1.00	0.00
ATOM	2004	2HB	LEU	130	-9.902	-0.516	15.353	1.00	0.00
ATOM	2005	HG	LEU	130	-8.956	1.288	17.326	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.008	0.112	15.481	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.165	-1.030	16.164	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.161	-0.048	17.231	1.00	0.00
ATOM	2009	1HD2	LEU	130	-8.845	2.391	14.659	1.00	0.00
ATOM	2010	2HD2	LEU	130	-7.230	2.151	15.327	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.409	3.125	16.203	1.00	0.00
ATOM	2012	N	GLU	131	-12.989	0.634	14.844	1.00	0.00
ATOM	2013	CA	GLU	131	-14.057	1.260	14.067	1.00	0.00
ATOM	2019	C	GLU	131	-15.290	1.590	14.915	1.00	0.00
ATOM	2020	O	GLU	131	-16.000	2.553	14.628	1.00	0.00
ATOM	2014	CB	GLU	131	-14.443	0.377	12.871	1.00	0.00
ATOM	2015	CG	GLU	131	-15.248	-0.861	13.238	1.00	0.00
ATOM	2016	CD	GLU	131	-16.716	-0.713	12.906	1.00	0.00
ATOM	2017	OE1	GLU	131	-17.064	-0.733	11.709	1.00	0.00
ATOM	2018	OE2	GLU	131	-17.525	-0.554	13.842	1.00	0.00
ATOM	2021	H	GLU	131	-12.669	-0.262	14.590	1.00	0.00
ATOM	2022	HA	GLU	131	-13.665	2.189	13.684	1.00	0.00
ATOM	2023	1HB	GLU	131	-13.539	0.056	12.375	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.028	0.966	12.182	1.00	0.00
ATOM	2025	1HG	GLU	131	-15.149	-1.040	14.298	1.00	0.00
ATOM	2026	2HG	GLU	131	-14.854	-1.706	12.692	1.00	0.00
ATOM	2027	N	THR	132	-15.557	0.789	15.936	1.00	0.00
ATOM	2028	CA	THR	132	-16.727	1.009	16.774	1.00	0.00
ATOM	2032	C	THR	132	-16.483	2.013	17.907	1.00	0.00
ATOM	2033	O	THR	132	-17.380	2.784	18.251	1.00	0.00
ATOM	2029	CB	THR	132	-17.228	-0.313	17.376	1.00	0.00
ATOM	2030	OG1	THR	132	-17.223	-1.337	16.375	1.00	0.00
ATOM	2031	CG2	THR	132	-18.632	-0.164	17.938	1.00	0.00
ATOM	2034	H	THR	132	-14.975	0.021	16.111	1.00	0.00
ATOM	2035	HA	THR	132	-17.510	1.398	16.141	1.00	0.00
ATOM	2036	HB	THR	132	-16.560	-0.598	18.179	1.00	0.00
ATOM	2037	HG1	THR	132	-17.234	-0.929	15.492	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.674	0.710	18.571	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.884	-1.040	18.516	1.00	0.00
ATOM	2040	3HG2	THR	132	-19.336	-0.053	17.126	1.00	0.00
ATOM	2041	N	ARG	133	-15.301	1.998	18.521	1.00	0.00
ATOM	2042	CA	ARG	133	-15.048	2.913	19.634	1.00	0.00
ATOM	2050	C	ARG	133	-13.888	3.870	19.388	1.00	0.00
ATOM	2051	O	ARG	133	-13.987	5.051	19.716	1.00	0.00
ATOM	2043	CB	ARG	133	-14.792	2.147	20.936	1.00	0.00
ATOM	2044	CG	ARG	133	-15.415	0.761	20.997	1.00	0.00
ATOM	2045	CD	ARG	133	-14.860	-0.028	22.171	1.00	0.00
ATOM	2046	NE	ARG	133	-15.562	-1.292	22.384	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.619	-1.918	23.564	1.00	0.00
ATOM	2048	NH1	ARG	133	-15.034	-1.386	24.631	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.254	-3.075	23.680	1.00	0.00
ATOM	2052	H	ARG	133	-14.613	1.354	18.246	1.00	0.00
ATOM	2053	HA	ARG	133	-15.938	3.509	19.762	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.183	2.729	21.758	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.725	2.038	21.066	1.00	0.00
ATOM	2056	1HG	ARG	133	-15.193	0.233	20.081	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.484	0.858	21.112	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.948	0.574	23.065	1.00	0.00
ATOM	2059	2HD	ARG	133	-13.818	-0.238	21.985	1.00	0.00
ATOM	2060	HE	ARG	133	-16.002	-1.702	21.601	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.548	-0.515	24.559	1.00	0.00
ATOM	2062	2HH1	ARG	133	-15.069	-1.863	25.516	1.00	0.00
ATOM	2063	1HH2	ARG	133	-16.703	-3.496	22.881	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.285	-3.546	24.574	1.00	0.00
ATOM	2065	N	LEU	134	-12.783	3.374	18.848	1.00	0.00



ATOM	2066	CA	LEU	134	-11.618	4.230	18.615	1.00	0.00
ATOM	2071	C	LEU	134	-11.944	5.360	17.647	1.00	0.00
ATOM	2072	O	LEU	134	-11.602	6.515	17.900	1.00	0.00
ATOM	2067	CB	LEU	134	-10.439	3.416	18.092	1.00	0.00
ATOM	2068	CG	LEU	134	-9.271	3.258	19.062	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.551	4.585	19.259	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.753	2.698	20.391	1.00	0.00
ATOM	2073	H	LEU	134	-12.740	2.418	18.617	1.00	0.00
ATOM	2074	HA	LEU	134	-11.343	4.666	19.564	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.070	3.892	17.196	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.798	2.432	17.833	1.00	0.00
ATOM	2077	HG	LEU	134	-8.564	2.556	18.642	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.802	4.705	18.490	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.076	4.600	20.228	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.264	5.395	19.195	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.329	1.718	20.544	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.831	2.627	20.381	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.444	3.353	21.192	1.00	0.00
ATOM	2084	N	ALA	135	-12.603	5.020	16.544	1.00	0.00
ATOM	2085	CA	ALA	135	-12.983	5.995	15.536	1.00	0.00
ATOM	2087	C	ALA	135	-13.782	7.136	16.152	1.00	0.00
ATOM	2088	O	ALA	135	-13.641	8.285	15.737	1.00	0.00
ATOM	2086	CB	ALA	135	-13.775	5.323	14.428	1.00	0.00
ATOM	2089	H	ALA	135	-12.839	4.078	16.400	1.00	0.00
ATOM	2090	HA	ALA	135	-12.078	6.398	15.105	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.105	5.031	13.634	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.512	6.012	14.042	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.272	4.448	14.821	1.00	0.00
ATOM	2094	N	ASP	136	-14.600	6.823	17.155	1.00	0.00
ATOM	2095	CA	ASP	136	-15.395	7.847	17.825	1.00	0.00
ATOM	2100	C	ASP	136	-14.482	8.846	18.512	1.00	0.00
ATOM	2101	O	ASP	136	-14.610	10.055	18.299	1.00	0.00
ATOM	2096	CB	ASP	136	-16.361	7.222	18.829	1.00	0.00
ATOM	2097	CG	ASP	136	-17.662	7.992	18.916	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.048	8.627	17.910	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.301	7.968	19.987	1.00	0.00
ATOM	2102	H	ASP	136	-14.661	5.891	17.459	1.00	0.00
ATOM	2103	HA	ASP	136	-15.960	8.372	17.070	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.902	7.213	19.808	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.581	6.208	18.527	1.00	0.00
ATOM	2106	N	TRP	137	-13.529	8.346	19.298	1.00	0.00
ATOM	2107	CA	TRP	137	-12.575	9.214	19.964	1.00	0.00
ATOM	2118	C	TRP	137	-11.811	10.014	18.915	1.00	0.00
ATOM	2119	O	TRP	137	-11.641	11.226	19.036	1.00	0.00
ATOM	2108	CB	TRP	137	-11.598	8.383	20.811	1.00	0.00
ATOM	2109	CG	TRP	137	-10.504	9.196	21.446	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.474	9.662	22.723	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.283	9.633	20.833	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.321	10.373	22.942	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.574	10.368	21.797	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.724	9.478	19.561	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.338	10.943	21.527	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.497	10.048	19.297	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.815	10.772	20.276	1.00	0.00
ATOM	2120	H	TRP	137	-13.449	7.371	19.410	1.00	0.00
ATOM	2121	HA	TRP	137	-13.120	9.893	20.601	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.139	7.633	20.184	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.146	7.895	21.603	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.250	9.486	23.447	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.075	10.815	23.784	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.236	8.920	18.790	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.794	11.495	22.270	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.051	9.937	18.319	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.856	11.202	20.025	1.00	0.00
ATOM	2130	N	ILE	138	-11.351	9.310	17.888	1.00	0.00
ATOM	2131	CA	ILE	138	-10.586	9.913	16.806	1.00	0.00
ATOM	2136	C	ILE	138	-11.354	11.043	16.123	1.00	0.00
ATOM	2137	O	ILE	138	-10.812	12.130	15.921	1.00	0.00
ATOM	2132	CB	ILE	138	-10.168	8.844	15.766	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.988	8.031	16.305	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.809	9.479	14.429	1.00	0.00
ATOM	2135	CD1	ILE	138	-8.992	6.583	15.871	1.00	0.00
ATOM	2138	H	ILE	138	-11.522	8.340	17.865	1.00	0.00



ATOM	2139	HA	ILE	138	-9.685	10.324	17.237	1.00	0.00
ATOM	2140	HB	ILE	138	-11.005	8.181	15.607	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.010	8.054	17.385	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.066	8.476	15.960	1.00	0.00
ATOM	2143	1HG2	ILE	138	-8.775	9.272	14.197	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.959	10.547	14.485	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.440	9.068	13.654	1.00	0.00
ATOM	2146	1HD1	ILE	138	-10.010	6.256	15.718	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.531	5.976	16.637	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.439	6.480	14.950	1.00	0.00
ATOM	2149	N	HIS	139	-12.609	10.789	15.772	1.00	0.00
ATOM	2150	CA	HIS	139	-13.427	11.797	15.104	1.00	0.00
ATOM	2157	C	HIS	139	-13.686	12.993	16.012	1.00	0.00
ATOM	2158	O	HIS	139	-13.811	14.121	15.540	1.00	0.00
ATOM	2151	CB	HIS	139	-14.757	11.206	14.625	1.00	0.00
ATOM	2152	CG	HIS	139	-14.653	10.474	13.319	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.696	11.108	12.097	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.520	9.154	13.047	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.591	10.211	11.134	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.484	9.016	11.682	1.00	0.00
ATOM	2159	H	HIS	139	-12.995	9.901	15.964	1.00	0.00
ATOM	2160	HA	HIS	139	-12.874	12.140	14.242	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.474	12.005	14.503	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.123	10.511	15.366	1.00	0.00
ATOM	2163	HD1	HIS	139	-14.788	12.084	11.955	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.448	8.355	13.772	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.575	10.420	10.076	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.626	8.165	11.196	1.00	0.00
ATOM	2167	N	SER	140	-13.770	12.746	17.310	1.00	0.00
ATOM	2168	CA	SER	140	-14.023	13.812	18.274	1.00	0.00
ATOM	2171	C	SER	140	-12.743	14.570	18.646	1.00	0.00
ATOM	2172	O	SER	140	-12.806	15.671	19.189	1.00	0.00
ATOM	2169	CB	SER	140	-14.675	13.232	19.528	1.00	0.00
ATOM	2170	OG	SER	140	-15.717	12.332	19.186	1.00	0.00
ATOM	2173	H	SER	140	-13.669	11.821	17.631	1.00	0.00
ATOM	2174	HA	SER	140	-14.710	14.507	17.817	1.00	0.00
ATOM	2175	1HB	SER	140	-15.088	14.034	20.124	1.00	0.00
ATOM	2176	2HB	SER	140	-13.933	12.699	20.103	1.00	0.00
ATOM	2177	HG	SER	140	-15.335	11.526	18.811	1.00	0.00
ATOM	2178	N	SER	141	-11.590	13.976	18.365	1.00	0.00
ATOM	2179	CA	SER	141	-10.315	14.607	18.691	1.00	0.00
ATOM	2182	C	SER	141	-9.868	15.563	17.592	1.00	0.00
ATOM	2183	O	SER	141	-9.595	16.735	17.848	1.00	0.00
ATOM	2180	CB	SER	141	-9.237	13.546	18.931	1.00	0.00
ATOM	2181	OG	SER	141	-8.211	14.041	19.779	1.00	0.00
ATOM	2184	H	SER	141	-11.594	13.092	17.943	1.00	0.00
ATOM	2185	HA	SER	141	-10.451	15.168	19.591	1.00	0.00
ATOM	2186	1HB	SER	141	-8.800	13.259	17.986	1.00	0.00
ATOM	2187	2HB	SER	141	-9.685	12.679	19.397	1.00	0.00
ATOM	2188	HG	SER	141	-7.540	14.491	19.240	1.00	0.00
ATOM	2189	N	GLY	142	-9.794	15.047	16.382	1.00	0.00
ATOM	2190	CA	GLY	142	-9.369	15.842	15.247	1.00	0.00
ATOM	2191	C	GLY	142	-9.434	15.034	13.980	1.00	0.00
ATOM	2192	O	GLY	142	-9.471	15.570	12.872	1.00	0.00
ATOM	2193	H	GLY	142	-10.028	14.107	16.254	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.353	16.170	15.404	1.00	0.00
ATOM	2195	2HA	GLY	142	-10.008	16.702	15.152	1.00	0.00
ATOM	2196	N	GLY	143	-9.457	13.726	14.155	1.00	0.00
ATOM	2197	CA	GLY	143	-9.528	12.831	13.028	1.00	0.00
ATOM	2198	C	GLY	143	-8.190	12.247	12.676	1.00	0.00
ATOM	2199	O	GLY	143	-7.163	12.672	13.200	1.00	0.00
ATOM	2200	H	GLY	143	-9.432	13.365	15.069	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.904	13.367	12.176	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.200	12.030	13.260	1.00	0.00
ATOM	2203	N	TRP	144	-8.200	11.277	11.776	1.00	0.00
ATOM	2204	CA	TRP	144	-6.975	10.635	11.338	1.00	0.00
ATOM	2215	C	TRP	144	-6.045	11.674	10.730	1.00	0.00
ATOM	2216	O	TRP	144	-4.825	11.564	10.823	1.00	0.00
ATOM	2205	CB	TRP	144	-7.300	9.524	10.338	1.00	0.00
ATOM	2206	CG	TRP	144	-8.016	8.368	10.974	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.367	8.175	11.061	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.411	7.254	11.631	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.636	7.005	11.735	1.00	0.00



ATOM	2210	CE2	TRP	144	-8.450	6.421	12.091	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.088	6.879	11.873	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.203	5.237	12.778	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.846	5.704	12.554	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.899	4.894	13.001	1.00	0.00
ATOM	2217	H	TRP	144	-9.053	10.989	11.389	1.00	0.00
ATOM	2218	HA	TRP	144	-6.496	10.204	12.205	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.382	9.157	9.904	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.931	9.924	9.558	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.105	8.852	10.661	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.533	6.646	11.928	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.261	7.490	11.534	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.003	4.600	13.126	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.825	5.394	12.750	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.661	3.983	13.530	1.00	0.00
ATOM	2227	N	ALA	145	-6.643	12.707	10.142	1.00	0.00
ATOM	2228	CA	ALA	145	-5.893	13.798	9.544	1.00	0.00
ATOM	2230	C	ALA	145	-5.058	14.525	10.598	1.00	0.00
ATOM	2231	O	ALA	145	-3.922	14.924	10.328	1.00	0.00
ATOM	2229	CB	ALA	145	-6.834	14.769	8.850	1.00	0.00
ATOM	2232	H	ALA	145	-7.620	12.742	10.132	1.00	0.00
ATOM	2233	HA	ALA	145	-5.232	13.378	8.799	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.259	15.485	8.281	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.424	15.289	9.590	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.490	14.224	8.186	1.00	0.00
ATOM	2237	N	GLU	146	-5.612	14.668	11.807	1.00	0.00
ATOM	2238	CA	GLU	146	-4.893	15.327	12.897	1.00	0.00
ATOM	2244	C	GLU	146	-3.632	14.527	13.221	1.00	0.00
ATOM	2245	O	GLU	146	-2.551	15.086	13.412	1.00	0.00
ATOM	2239	CB	GLU	146	-5.810	15.485	14.131	1.00	0.00
ATOM	2240	CG	GLU	146	-5.111	15.341	15.477	1.00	0.00
ATOM	2241	CD	GLU	146	-5.897	15.971	16.618	1.00	0.00
ATOM	2242	OE1	GLU	146	-6.478	17.056	16.411	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.935	15.380	17.723	1.00	0.00
ATOM	2246	H	GLU	146	-6.517	14.305	11.974	1.00	0.00
ATOM	2247	HA	GLU	146	-4.598	16.307	12.550	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.603	14.750	14.079	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.253	16.465	14.096	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.144	15.819	15.418	1.00	0.00
ATOM	2251	2HG	GLU	146	-4.979	14.292	15.690	1.00	0.00
ATOM	2252	N	PHE	147	-3.783	13.210	13.229	1.00	0.00
ATOM	2253	CA	PHE	147	-2.676	12.295	13.484	1.00	0.00
ATOM	2261	C	PHE	147	-1.630	12.395	12.369	1.00	0.00
ATOM	2262	O	PHE	147	-0.428	12.336	12.633	1.00	0.00
ATOM	2254	CB	PHE	147	-3.216	10.864	13.592	1.00	0.00
ATOM	2255	CG	PHE	147	-2.172	9.816	13.860	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.155	10.037	14.775	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.213	8.604	13.190	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.200	9.069	15.014	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.261	7.632	13.426	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.252	7.866	14.338	1.00	0.00
ATOM	2263	H	PHE	147	-4.668	12.841	13.036	1.00	0.00
ATOM	2264	HA	PHE	147	-2.210	12.576	14.424	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.712	10.608	12.667	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.934	10.821	14.398	1.00	0.00
ATOM	2267	HD1	PHE	147	-1.112	10.978	15.304	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.002	8.420	12.476	1.00	0.00
ATOM	2269	HE1	PHE	147	0.589	9.253	15.729	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.304	6.692	12.896	1.00	0.00
ATOM	2271	HZ	PHE	147	0.498	7.109	14.521	1.00	0.00
ATOM	2272	N	THR	148	-2.088	12.555	11.128	1.00	0.00
ATOM	2273	CA	THR	148	-1.179	12.669	9.987	1.00	0.00
ATOM	2277	C	THR	148	-0.299	13.907	10.096	1.00	0.00
ATOM	2278	O	THR	148	0.816	13.928	9.591	1.00	0.00
ATOM	2274	CB	THR	148	-1.931	12.709	8.648	1.00	0.00
ATOM	2275	OG1	THR	148	-3.194	12.069	8.786	1.00	0.00
ATOM	2276	CG2	THR	148	-1.130	12.012	7.558	1.00	0.00
ATOM	2279	H	THR	148	-3.057	12.594	10.976	1.00	0.00
ATOM	2280	HA	THR	148	-0.543	11.794	9.988	1.00	0.00
ATOM	2281	HB	THR	148	-2.084	13.737	8.363	1.00	0.00
ATOM	2282	HG1	THR	148	-3.817	12.663	9.213	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.497	11.003	7.431	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.087	11.985	7.840	1.00	0.00



ATOM	2285	3HG2	THR	148	-1.239	12.551	6.629	1.00	0.00
ATOM	2286	N	ALA	149	-0.790	14.936	10.764	1.00	0.00
ATOM	2287	CA	ALA	149	-0.006	16.148	10.937	1.00	0.00
ATOM	2289	C	ALA	149	0.906	16.001	12.146	1.00	0.00
ATOM	2290	O	ALA	149	1.966	16.614	12.228	1.00	0.00
ATOM	2288	CB	ALA	149	-0.911	17.361	11.087	1.00	0.00
ATOM	2291	H	ALA	149	-1.691	14.875	11.160	1.00	0.00
ATOM	2292	HA	ALA	149	0.606	16.279	10.055	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.938	17.065	10.934	1.00	0.00
ATOM	2294	2HB	ALA	149	-0.637	18.107	10.356	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.799	17.772	12.080	1.00	0.00
ATOM	2296	N	LEU	150	0.479	15.169	13.080	1.00	0.00
ATOM	2297	CA	LEU	150	1.235	14.918	14.295	1.00	0.00
ATOM	2302	C	LEU	150	2.434	14.012	14.026	1.00	0.00
ATOM	2303	O	LEU	150	3.511	14.207	14.591	1.00	0.00
ATOM	2298	CB	LEU	150	0.320	14.276	15.336	1.00	0.00
ATOM	2299	CG	LEU	150	-0.335	15.252	16.312	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.768	14.842	16.593	1.00	0.00
ATOM	2301	CD2	LEU	150	0.456	15.335	17.607	1.00	0.00
ATOM	2304	H	LEU	150	-0.378	14.708	12.950	1.00	0.00
ATOM	2305	HA	LEU	150	1.587	15.865	14.673	1.00	0.00
ATOM	2306	1HB	LEU	150	0.887	13.561	15.901	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.457	13.749	14.810	1.00	0.00
ATOM	2308	HG	LEU	150	-0.350	16.233	15.867	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.250	15.601	17.190	1.00	0.00
ATOM	2310	2HD1	LEU	150	-1.776	13.904	17.127	1.00	0.00
ATOM	2311	3HD1	LEU	150	-2.299	14.729	15.659	1.00	0.00
ATOM	2312	1HD2	LEU	150	-0.153	15.790	18.373	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.342	15.933	17.450	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.744	14.341	17.918	1.00	0.00
ATOM	2315	N	TYR	151	2.230	13.009	13.181	1.00	0.00
ATOM	2316	CA	TYR	151	3.282	12.055	12.858	1.00	0.00
ATOM	2325	C	TYR	151	3.552	11.989	11.357	1.00	0.00
ATOM	2326	O	TYR	151	3.972	10.953	10.847	1.00	0.00
ATOM	2317	CB	TYR	151	2.887	10.665	13.363	1.00	0.00
ATOM	2318	CG	TYR	151	3.557	10.269	14.659	1.00	0.00
ATOM	2319	CD1	TYR	151	4.892	9.890	14.684	1.00	0.00
ATOM	2320	CD2	TYR	151	2.854	10.273	15.857	1.00	0.00
ATOM	2321	CE1	TYR	151	5.508	9.530	15.866	1.00	0.00
ATOM	2322	CE2	TYR	151	3.461	9.912	17.042	1.00	0.00
ATOM	2323	CZ	TYR	151	4.788	9.542	17.042	1.00	0.00
ATOM	2324	OH	TYR	151	5.403	9.194	18.222	1.00	0.00
ATOM	2327	H	TYR	151	1.339	12.897	12.778	1.00	0.00
ATOM	2328	HA	TYR	151	4.183	12.367	13.363	1.00	0.00
ATOM	2329	1HB	TYR	151	3.148	9.930	12.615	1.00	0.00
ATOM	2330	2HB	TYR	151	1.821	10.643	13.524	1.00	0.00
ATOM	2331	HD1	TYR	151	5.453	9.882	13.762	1.00	0.00
ATOM	2332	HD2	TYR	151	1.812	10.562	15.852	1.00	0.00
ATOM	2333	HE1	TYR	151	6.548	9.238	15.867	1.00	0.00
ATOM	2334	HE2	TYR	151	2.897	9.922	17.964	1.00	0.00
ATOM	2335	HH	TYR	151	6.363	9.312	18.128	1.00	0.00
ATOM	2336	N	GLY	152	3.305	13.078	10.645	1.00	0.00
ATOM	2337	CA	GLY	152	3.535	13.069	9.216	1.00	0.00
ATOM	2338	C	GLY	152	4.560	14.085	8.771	1.00	0.00
ATOM	2339	O	GLY	152	5.572	14.297	9.438	1.00	0.00
ATOM	2340	H	GLY	152	2.958	13.886	11.081	1.00	0.00
ATOM	2341	1HA	GLY	152	2.600	13.273	8.714	1.00	0.00
ATOM	2342	2HA	GLY	152	3.874	12.085	8.927	1.00	0.00
ATOM	2343	N	ASP	153	4.297	14.698	7.627	1.00	0.00
ATOM	2344	CA	ASP	153	5.199	15.692	7.050	1.00	0.00
ATOM	2349	C	ASP	153	5.071	17.034	7.755	1.00	0.00
ATOM	2350	O	ASP	153	6.067	17.715	8.003	1.00	0.00
ATOM	2345	CB	ASP	153	4.912	15.861	5.556	1.00	0.00
ATOM	2346	CG	ASP	153	6.079	15.433	4.690	1.00	0.00
ATOM	2347	OD1	ASP	153	6.999	16.250	4.465	1.00	0.00
ATOM	2348	OD2	ASP	153	6.084	14.275	4.231	1.00	0.00
ATOM	2351	H	ASP	153	3.476	14.463	7.150	1.00	0.00
ATOM	2352	HA	ASP	153	6.209	15.331	7.172	1.00	0.00
ATOM	2353	1HB	ASP	153	4.696	16.900	5.352	1.00	0.00
ATOM	2354	2HB	ASP	153	4.054	15.261	5.291	1.00	0.00
ATOM	2355	N	GLY	154	3.842	17.409	8.085	1.00	0.00
ATOM	2356	CA	GLY	154	3.603	18.668	8.765	1.00	0.00
ATOM	2357	C	GLY	154	3.743	18.541	10.269	1.00	0.00



ATOM	2358	O	GLY	154	2.903	19.031	11.022	1.00	0.00
ATOM	2359	H	GLY	154	3.090	16.824	7.868	1.00	0.00
ATOM	2360	1HA	GLY	154	2.602	19.005	8.535	1.00	0.00
ATOM	2361	2HA	GLY	154	4.311	19.401	8.409	1.00	0.00
ATOM	2362	N	ALA	155	4.808	17.883	10.704	1.00	0.00
ATOM	2363	CA	ALA	155	5.070	17.685	12.118	1.00	0.00
ATOM	2365	C	ALA	155	5.789	18.891	12.704	1.00	0.00
ATOM	2366	O	ALA	155	6.984	18.839	13.005	1.00	0.00
ATOM	2364	CB	ALA	155	5.882	16.416	12.337	1.00	0.00
ATOM	2367	H	ALA	155	5.441	17.526	10.051	1.00	0.00
ATOM	2368	HA	ALA	155	4.120	17.567	12.618	1.00	0.00
ATOM	2369	1HB	ALA	155	5.600	15.964	13.277	1.00	0.00
ATOM	2370	2HB	ALA	155	6.933	16.660	12.355	1.00	0.00
ATOM	2371	3HB	ALA	155	5.688	15.721	11.533	1.00	0.00
ATOM	2372	N	LEU	156	5.049	19.977	12.850	1.00	0.00
ATOM	2373	CA	LEU	156	5.583	21.212	13.387	1.00	0.00
ATOM	2378	C	LEU	156	5.998	21.045	14.848	1.00	0.00
ATOM	2379	O	LEU	156	5.686	20.034	15.487	1.00	0.00
ATOM	2374	CB	LEU	156	4.551	22.332	13.246	1.00	0.00
ATOM	2375	CG	LEU	156	3.161	22.033	13.817	1.00	0.00
ATOM	2376	CD1	LEU	156	2.631	23.242	14.568	1.00	0.00
ATOM	2377	CD2	LEU	156	2.195	21.639	12.711	1.00	0.00
ATOM	2380	H	LEU	156	4.110	19.951	12.577	1.00	0.00
ATOM	2381	HA	LEU	156	6.457	21.471	12.809	1.00	0.00
ATOM	2382	1HB	LEU	156	4.441	22.560	12.199	1.00	0.00
ATOM	2383	2HB	LEU	156	4.936	23.201	13.743	1.00	0.00
ATOM	2384	HG	LEU	156	3.235	21.208	14.514	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.352	23.549	15.310	1.00	0.00
ATOM	2386	2HD1	LEU	156	1.701	22.984	15.053	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.462	24.051	13.873	1.00	0.00
ATOM	2388	1HD2	LEU	156	1.277	22.198	12.819	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.982	20.582	12.779	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.638	21.856	11.751	1.00	0.00
ATOM	2391	N	GLU	157	6.712	22.037	15.363	1.00	0.00
ATOM	2392	CA	GLU	157	7.204	22.024	16.734	1.00	0.00
ATOM	2398	C	GLU	157	6.079	21.806	17.744	1.00	0.00
ATOM	2399	O	GLU	157	6.275	21.158	18.772	1.00	0.00
ATOM	2393	CB	GLU	157	7.938	23.331	17.041	1.00	0.00
ATOM	2394	CG	GLU	157	7.156	24.581	16.670	1.00	0.00
ATOM	2395	CD	GLU	157	7.456	25.052	15.265	1.00	0.00
ATOM	2396	OE1	GLU	157	8.505	25.694	15.063	1.00	0.00
ATOM	2397	OE2	GLU	157	6.650	24.771	14.356	1.00	0.00
ATOM	2400	H	GLU	157	6.934	22.808	14.791	1.00	0.00
ATOM	2401	HA	GLU	157	7.905	21.207	16.822	1.00	0.00
ATOM	2402	1HB	GLU	157	8.867	23.342	16.494	1.00	0.00
ATOM	2403	2HB	GLU	157	8.153	23.368	18.094	1.00	0.00
ATOM	2404	1HG	GLU	157	7.410	25.370	17.362	1.00	0.00
ATOM	2405	2HG	GLU	157	6.100	24.362	16.743	1.00	0.00
ATOM	2406	N	GLU	158	4.906	22.342	17.448	1.00	0.00
ATOM	2407	CA	GLU	158	3.765	22.199	18.341	1.00	0.00
ATOM	2413	C	GLU	158	3.205	20.784	18.296	1.00	0.00
ATOM	2414	O	GLU	158	2.709	20.274	19.296	1.00	0.00
ATOM	2408	CB	GLU	158	2.665	23.194	17.975	1.00	0.00
ATOM	2409	CG	GLU	158	2.843	24.568	18.593	1.00	0.00
ATOM	2410	CD	GLU	158	1.742	24.893	19.578	1.00	0.00
ATOM	2411	OE1	GLU	158	1.577	24.134	20.554	1.00	0.00
ATOM	2412	OE2	GLU	158	1.031	25.901	19.379	1.00	0.00
ATOM	2415	H	GLU	158	4.807	22.845	16.609	1.00	0.00
ATOM	2416	HA	GLU	158	4.103	22.406	19.344	1.00	0.00
ATOM	2417	1HB	GLU	158	1.718	22.795	18.309	1.00	0.00
ATOM	2418	2HB	GLU	158	2.639	23.305	16.901	1.00	0.00
ATOM	2419	1HG	GLU	158	2.835	25.309	17.807	1.00	0.00
ATOM	2420	2HG	GLU	158	3.791	24.599	19.109	1.00	0.00
ATOM	2421	N	ALA	159	3.290	20.152	17.136	1.00	0.00
ATOM	2422	CA	ALA	159	2.781	18.798	16.971	1.00	0.00
ATOM	2424	C	ALA	159	3.696	17.777	17.631	1.00	0.00
ATOM	2425	O	ALA	159	3.233	16.844	18.288	1.00	0.00
ATOM	2423	CB	ALA	159	2.607	18.475	15.494	1.00	0.00
ATOM	2426	H	ALA	159	3.706	20.605	16.373	1.00	0.00
ATOM	2427	HA	ALA	159	1.810	18.750	17.440	1.00	0.00
ATOM	2428	1HB	ALA	159	3.493	18.773	14.954	1.00	0.00
ATOM	2429	2HB	ALA	159	1.752	19.009	15.107	1.00	0.00
ATOM	2430	3HB	ALA	159	2.453	17.412	15.374	1.00	0.00



ATOM	2431	N	ARG	160	4.997	17.952	17.451	1.00	0.00
ATOM	2432	CA	ARG	160	5.967	17.030	18.026	1.00	0.00
ATOM	2440	C	ARG	160	5.967	17.108	19.552	1.00	0.00
ATOM	2441	O	ARG	160	6.060	16.084	20.229	1.00	0.00
ATOM	2433	CB	ARG	160	7.370	17.281	17.459	1.00	0.00
ATOM	2434	CG	ARG	160	7.982	18.608	17.869	1.00	0.00
ATOM	2435	CD	ARG	160	9.273	18.888	17.121	1.00	0.00
ATOM	2436	NE	ARG	160	10.012	19.996	17.720	1.00	0.00
ATOM	2437	CZ	ARG	160	10.772	20.846	17.032	1.00	0.00
ATOM	2438	NH1	ARG	160	10.895	20.718	15.718	1.00	0.00
ATOM	2439	NH2	ARG	160	11.410	21.828	17.658	1.00	0.00
ATOM	2442	H	ARG	160	5.309	18.713	16.912	1.00	0.00
ATOM	2443	HA	ARG	160	5.659	16.033	17.743	1.00	0.00
ATOM	2444	1HB	ARG	160	7.315	17.255	16.379	1.00	0.00
ATOM	2445	2HB	ARG	160	8.025	16.492	17.793	1.00	0.00
ATOM	2446	1HG	ARG	160	8.189	18.583	18.929	1.00	0.00
ATOM	2447	2HG	ARG	160	7.277	19.399	17.658	1.00	0.00
ATOM	2448	1HD	ARG	160	9.036	19.136	16.096	1.00	0.00
ATOM	2449	2HD	ARG	160	9.889	18.001	17.143	1.00	0.00
ATOM	2450	HE	ARG	160	9.936	20.107	18.698	1.00	0.00
ATOM	2451	1HH1	ARG	160	10.411	19.979	15.232	1.00	0.00
ATOM	2452	2HH1	ARG	160	11.486	21.345	15.200	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.330	21.933	18.651	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.968	22.485	17.130	1.00	0.00
ATOM	2455	N	ARG	161	5.842	18.317	20.098	1.00	0.00
ATOM	2456	CA	ARG	161	5.819	18.485	21.546	1.00	0.00
ATOM	2464	C	ARG	161	4.504	17.974	22.124	1.00	0.00
ATOM	2465	O	ARG	161	4.448	17.529	23.270	1.00	0.00
ATOM	2457	CB	ARG	161	6.057	19.945	21.948	1.00	0.00
ATOM	2458	CG	ARG	161	4.881	20.869	21.690	1.00	0.00
ATOM	2459	CD	ARG	161	4.981	22.137	22.531	1.00	0.00
ATOM	2460	NE	ARG	161	3.849	23.046	22.325	1.00	0.00
ATOM	2461	CZ	ARG	161	3.490	24.001	23.190	1.00	0.00
ATOM	2462	NH1	ARG	161	4.127	24.137	24.347	1.00	0.00
ATOM	2463	NH2	ARG	161	2.486	24.811	22.901	1.00	0.00
ATOM	2466	H	ARG	161	5.756	19.104	19.518	1.00	0.00
ATOM	2467	HA	ARG	161	6.618	17.888	21.947	1.00	0.00
ATOM	2468	1HB	ARG	161	6.907	20.318	21.396	1.00	0.00
ATOM	2469	2HB	ARG	161	6.283	19.979	23.002	1.00	0.00
ATOM	2470	1HG	ARG	161	3.964	20.353	21.932	1.00	0.00
ATOM	2471	2HG	ARG	161	4.882	21.132	20.647	1.00	0.00
ATOM	2472	1HD	ARG	161	5.894	22.652	22.270	1.00	0.00
ATOM	2473	2HD	ARG	161	5.016	21.857	23.574	1.00	0.00
ATOM	2474	HE	ARG	161	3.336	22.950	21.489	1.00	0.00
ATOM	2475	1HH1	ARG	161	4.887	23.521	24.586	1.00	0.00
ATOM	2476	2HH1	ARG	161	3.844	24.850	24.994	1.00	0.00
ATOM	2477	1HH2	ARG	161	1.984	24.704	22.025	1.00	0.00
ATOM	2478	2HH2	ARG	161	2.225	25.544	23.541	1.00	0.00
ATOM	2479	N	LEU	162	3.448	18.034	21.321	1.00	0.00
ATOM	2480	CA	LEU	162	2.139	17.579	21.756	1.00	0.00
ATOM	2485	C	LEU	162	2.063	16.061	21.792	1.00	0.00
ATOM	2486	O	LEU	162	1.585	15.492	22.766	1.00	0.00
ATOM	2481	CB	LEU	162	1.042	18.132	20.842	1.00	0.00
ATOM	2482	CG	LEU	162	0.213	19.274	21.437	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.539	20.014	20.340	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.754	18.738	22.483	1.00	0.00
ATOM	2487	H	LEU	162	3.554	18.395	20.417	1.00	0.00
ATOM	2488	HA	LEU	162	1.979	17.952	22.757	1.00	0.00
ATOM	2489	1HB	LEU	162	0.372	17.325	20.590	1.00	0.00
ATOM	2490	2HB	LEU	162	1.507	18.489	19.933	1.00	0.00
ATOM	2491	HG	LEU	162	0.874	19.977	21.921	1.00	0.00
ATOM	2492	1HD1	LEU	162	0.105	20.763	19.906	1.00	0.00
ATOM	2493	2HD1	LEU	162	-1.414	20.491	20.759	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.842	19.313	19.576	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.713	18.548	22.023	1.00	0.00
ATOM	2496	2HD2	LEU	162	-0.871	19.466	23.273	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.363	17.819	22.894	1.00	0.00
ATOM	2498	N	ARG	163	2.525	15.400	20.733	1.00	0.00
ATOM	2499	CA	ARG	163	2.474	13.941	20.683	1.00	0.00
ATOM	2507	C	ARG	163	3.348	13.309	21.761	1.00	0.00
ATOM	2508	O	ARG	163	2.967	12.297	22.351	1.00	0.00
ATOM	2500	CB	ARG	163	2.850	13.408	19.293	1.00	0.00
ATOM	2501	CG	ARG	163	4.235	13.794	18.810	1.00	0.00



ATOM	2502	CD	ARG	163	4.481	13.275	17.404	1.00	0.00
ATOM	2503	NE	ARG	163	5.782	12.618	17.276	1.00	0.00
ATOM	2504	CZ	ARG	163	6.590	12.757	16.225	1.00	0.00
ATOM	2505	NH1	ARG	163	6.231	13.524	15.200	1.00	0.00
ATOM	2506	NH2	ARG	163	7.739	12.094	16.182	1.00	0.00
ATOM	2509	H	ARG	163	2.892	15.904	19.971	1.00	0.00
ATOM	2510	HA	ARG	163	1.449	13.658	20.884	1.00	0.00
ATOM	2511	1HB	ARG	163	2.130	13.778	18.577	1.00	0.00
ATOM	2512	2HB	ARG	163	2.795	12.330	19.312	1.00	0.00
ATOM	2513	1HG	ARG	163	4.973	13.371	19.475	1.00	0.00
ATOM	2514	2HG	ARG	163	4.321	14.872	18.807	1.00	0.00
ATOM	2515	1HD	ARG	163	4.427	14.101	16.709	1.00	0.00
ATOM	2516	2HD	ARG	163	3.707	12.559	17.163	1.00	0.00
ATOM	2517	HE	ARG	163	6.063	12.025	18.012	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.345	14.002	15.210	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.844	13.627	14.405	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.002	11.476	16.941	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.354	12.202	15.397	1.00	0.00
ATOM	2522	N	GLU	164	4.505	13.906	22.034	1.00	0.00
ATOM	2523	CA	GLU	164	5.397	13.382	23.060	1.00	0.00
ATOM	2529	C	GLU	164	4.770	13.556	24.438	1.00	0.00
ATOM	2530	O	GLU	164	4.750	12.625	25.248	1.00	0.00
ATOM	2524	CB	GLU	164	6.763	14.071	23.003	1.00	0.00
ATOM	2525	CG	GLU	164	7.930	13.104	23.139	1.00	0.00
ATOM	2526	CD	GLU	164	9.217	13.652	22.561	1.00	0.00
ATOM	2527	OE1	GLU	164	9.533	14.831	22.818	1.00	0.00
ATOM	2528	OE2	GLU	164	9.925	12.895	21.862	1.00	0.00
ATOM	2531	H	GLU	164	4.758	14.720	21.544	1.00	0.00
ATOM	2532	HA	GLU	164	5.528	12.325	22.872	1.00	0.00
ATOM	2533	1HB	GLU	164	6.824	14.792	23.804	1.00	0.00
ATOM	2534	2HB	GLU	164	6.857	14.584	22.057	1.00	0.00
ATOM	2535	1HG	GLU	164	7.686	12.186	22.624	1.00	0.00
ATOM	2536	2HG	GLU	164	8.087	12.893	24.188	1.00	0.00
ATOM	2537	N	GLY	165	4.231	14.742	24.693	1.00	0.00
ATOM	2538	CA	GLY	165	3.592	14.995	25.969	1.00	0.00
ATOM	2539	C	GLY	165	2.308	14.204	26.115	1.00	0.00
ATOM	2540	O	GLY	165	1.877	13.899	27.226	1.00	0.00
ATOM	2541	H	GLY	165	4.253	15.447	24.007	1.00	0.00
ATOM	2542	1HA	GLY	165	3.367	16.048	26.048	1.00	0.00
ATOM	2543	2HA	GLY	165	4.269	14.718	26.764	1.00	0.00
ATOM	2544	N	ASN	166	1.704	13.874	24.981	1.00	0.00
ATOM	2545	CA	ASN	166	0.463	13.116	24.952	1.00	0.00
ATOM	2550	C	ASN	166	0.671	11.707	25.476	1.00	0.00
ATOM	2551	O	ASN	166	0.028	11.295	26.443	1.00	0.00
ATOM	2546	CB	ASN	166	-0.090	13.039	23.528	1.00	0.00
ATOM	2547	CG	ASN	166	-1.355	13.852	23.350	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.914	14.381	24.307	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.823	13.946	22.119	1.00	0.00
ATOM	2552	H	ASN	166	2.107	14.156	24.132	1.00	0.00
ATOM	2553	HA	ASN	166	-0.254	13.622	25.581	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.313	12.008	23.292	1.00	0.00
ATOM	2555	2HB	ASN	166	0.654	13.406	22.837	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.334	13.496	21.402	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.646	14.451	21.977	1.00	0.00
ATOM	2558	N	TRP	167	1.566	10.961	24.831	1.00	0.00
ATOM	2559	CA	TRP	167	1.832	9.591	25.238	1.00	0.00
ATOM	2570	C	TRP	167	2.372	9.538	26.656	1.00	0.00
ATOM	2571	O	TRP	167	2.170	8.552	27.352	1.00	0.00
ATOM	2560	CB	TRP	167	2.755	8.855	24.243	1.00	0.00
ATOM	2561	CG	TRP	167	4.208	9.246	24.274	1.00	0.00
ATOM	2562	CD1	TRP	167	4.862	10.021	23.361	1.00	0.00
ATOM	2563	CD2	TRP	167	5.196	8.851	25.239	1.00	0.00
ATOM	2564	NE1	TRP	167	6.186	10.150	23.708	1.00	0.00
ATOM	2565	CE2	TRP	167	6.415	9.441	24.856	1.00	0.00
ATOM	2566	CE3	TRP	167	5.164	8.063	26.393	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.589	9.268	25.587	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.329	7.892	27.116	1.00	0.00
ATOM	2569	CH2	TRP	167	7.527	8.493	26.711	1.00	0.00
ATOM	2572	H	TRP	167	2.045	11.338	24.065	1.00	0.00
ATOM	2573	HA	TRP	167	0.874	9.084	25.240	1.00	0.00
ATOM	2574	1HB	TRP	167	2.388	9.034	23.241	1.00	0.00
ATOM	2575	2HB	TRP	167	2.703	7.796	24.444	1.00	0.00
ATOM	2576	HD1	TRP	167	4.393	10.471	22.498	1.00	0.00



ATOM	2577	HE1	TRP	167	6.856	10.666	23.213	1.00	0.00
ATOM	2578	HE3	TRP	167	4.246	7.593	26.723	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.521	9.724	25.287	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.323	7.287	28.011	1.00	0.00
ATOM	2581	HH2	TRP	167	8.413	8.331	27.307	1.00	0.00
ATOM	2582	N	ALA	168	3.035	10.600	27.096	1.00	0.00
ATOM	2583	CA	ALA	168	3.569	10.638	28.449	1.00	0.00
ATOM	2585	C	ALA	168	2.468	10.371	29.473	1.00	0.00
ATOM	2586	O	ALA	168	2.656	9.609	30.425	1.00	0.00
ATOM	2584	CB	ALA	168	4.241	11.976	28.718	1.00	0.00
ATOM	2587	H	ALA	168	3.160	11.377	26.503	1.00	0.00
ATOM	2588	HA	ALA	168	4.310	9.863	28.533	1.00	0.00
ATOM	2589	1HB	ALA	168	3.987	12.309	29.712	1.00	0.00
ATOM	2590	2HB	ALA	168	3.900	12.703	27.995	1.00	0.00
ATOM	2591	3HB	ALA	168	5.313	11.863	28.637	1.00	0.00
ATOM	2592	N	SER	169	1.320	10.997	29.268	1.00	0.00
ATOM	2593	CA	SER	169	0.189	10.834	30.163	1.00	0.00
ATOM	2596	C	SER	169	-0.688	9.629	29.799	1.00	0.00
ATOM	2597	O	SER	169	-1.274	9.006	30.681	1.00	0.00
ATOM	2594	CB	SER	169	-0.655	12.108	30.162	1.00	0.00
ATOM	2595	OG	SER	169	0.148	13.246	29.894	1.00	0.00
ATOM	2598	H	SER	169	1.230	11.593	28.494	1.00	0.00
ATOM	2599	HA	SER	169	0.581	10.685	31.157	1.00	0.00
ATOM	2600	1HB	SER	169	-1.123	12.229	31.127	1.00	0.00
ATOM	2601	2HB	SER	169	-1.415	12.031	29.399	1.00	0.00
ATOM	2602	HG	SER	169	0.469	13.614	30.730	1.00	0.00
ATOM	2603	N	VAL	170	-0.813	9.314	28.508	1.00	0.00
ATOM	2604	CA	VAL	170	-1.684	8.204	28.095	1.00	0.00
ATOM	2608	C	VAL	170	-1.008	6.835	28.148	1.00	0.00
ATOM	2609	O	VAL	170	-1.676	5.813	28.303	1.00	0.00
ATOM	2605	CB	VAL	170	-2.293	8.413	26.689	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.301	9.551	26.706	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.225	8.661	25.639	1.00	0.00
ATOM	2610	H	VAL	170	-0.344	9.854	27.828	1.00	0.00
ATOM	2611	HA	VAL	170	-2.506	8.184	28.795	1.00	0.00
ATOM	2612	HB	VAL	170	-2.814	7.509	26.419	1.00	0.00
ATOM	2613	1HG1	VAL	170	-4.299	9.147	26.642	1.00	0.00
ATOM	2614	2HG1	VAL	170	-3.122	10.205	25.863	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.197	10.110	27.625	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.270	8.787	26.124	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.467	9.558	25.080	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.179	7.819	24.965	1.00	0.00
ATOM	2619	N	ARG	171	0.302	6.794	28.021	1.00	0.00
ATOM	2620	CA	ARG	171	1.012	5.526	28.061	1.00	0.00
ATOM	2628	C	ARG	171	1.171	5.061	29.503	1.00	0.00
ATOM	2629	O	ARG	171	1.202	3.864	29.782	1.00	0.00
ATOM	2621	CB	ARG	171	2.376	5.654	27.378	1.00	0.00
ATOM	2622	CG	ARG	171	3.036	4.326	27.051	1.00	0.00
ATOM	2623	CD	ARG	171	4.173	4.507	26.059	1.00	0.00
ATOM	2624	NE	ARG	171	5.465	4.671	26.726	1.00	0.00
ATOM	2625	CZ	ARG	171	6.632	4.298	26.202	1.00	0.00
ATOM	2626	NH1	ARG	171	6.676	3.736	24.997	1.00	0.00
ATOM	2627	NH2	ARG	171	7.756	4.491	26.880	1.00	0.00
ATOM	2630	H	ARG	171	0.807	7.631	27.896	1.00	0.00
ATOM	2631	HA	ARG	171	0.418	4.799	27.527	1.00	0.00
ATOM	2632	1HB	ARG	171	3.038	6.212	28.023	1.00	0.00
ATOM	2633	2HB	ARG	171	2.247	6.200	26.453	1.00	0.00
ATOM	2634	1HG	ARG	171	2.298	3.663	26.623	1.00	0.00
ATOM	2635	2HG	ARG	171	3.428	3.895	27.960	1.00	0.00
ATOM	2636	1HD	ARG	171	3.973	5.384	25.458	1.00	0.00
ATOM	2637	2HD	ARG	171	4.217	3.637	25.420	1.00	0.00
ATOM	2638	HE	ARG	171	5.461	5.086	27.620	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.831	3.592	24.479	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.552	3.454	24.605	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.727	4.923	27.798	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.635	4.212	26.495	1.00	0.00
ATOM	2643	N	THR	172	1.262	6.018	30.413	1.00	0.00
ATOM	2644	CA	THR	172	1.421	5.714	31.824	1.00	0.00
ATOM	2648	C	THR	172	0.083	5.559	32.541	1.00	0.00
ATOM	2649	O	THR	172	-0.006	4.826	33.522	1.00	0.00
ATOM	2645	CB	THR	172	2.271	6.787	32.518	1.00	0.00
ATOM	2646	OG1	THR	172	3.285	7.255	31.616	1.00	0.00
ATOM	2647	CG2	THR	172	2.922	6.237	33.775	1.00	0.00



ATOM	2650	H	THR	172	1.229	6.955	30.127	1.00	0.00
ATOM	2651	HA	THR	172	1.945	4.776	31.899	1.00	0.00
ATOM	2652	HB	THR	172	1.630	7.608	32.789	1.00	0.00
ATOM	2653	HG1	THR	172	3.054	8.143	31.302	1.00	0.00
ATOM	2654	1HG2	THR	172	3.345	7.051	34.346	1.00	0.00
ATOM	2655	2HG2	THR	172	3.702	5.543	33.502	1.00	0.00
ATOM	2656	3HG2	THR	172	2.179	5.727	34.373	1.00	0.00
ATOM	2657	N	VAL	173	-0.959	6.227	32.058	1.00	0.00
ATOM	2658	CA	VAL	173	-2.269	6.114	32.693	1.00	0.00
ATOM	2662	C	VAL	173	-2.826	4.694	32.539	1.00	0.00
ATOM	2663	O	VAL	173	-3.588	4.215	33.377	1.00	0.00
ATOM	2659	CB	VAL	173	-3.265	7.167	32.146	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.820	6.778	30.785	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.390	7.407	33.141	1.00	0.00
ATOM	2664	H	VAL	173	-0.852	6.799	31.267	1.00	0.00
ATOM	2665	HA	VAL	173	-2.130	6.307	33.749	1.00	0.00
ATOM	2666	HB	VAL	173	-2.727	8.092	32.025	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.693	7.377	30.569	1.00	0.00
ATOM	2668	2HG1	VAL	173	-4.093	5.734	30.793	1.00	0.00
ATOM	2669	3HG1	VAL	173	-3.069	6.949	30.028	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.569	6.504	33.707	1.00	0.00
ATOM	2671	2HG2	VAL	173	-5.288	7.681	32.609	1.00	0.00
ATOM	2672	3HG2	VAL	173	-4.113	8.205	33.813	1.00	0.00
ATOM	2673	N	LEU	174	-2.408	4.015	31.476	1.00	0.00
ATOM	2674	CA	LEU	174	-2.837	2.640	31.224	1.00	0.00
ATOM	2679	C	LEU	174	-1.629	1.710	31.180	1.00	0.00
ATOM	2680	O	LEU	174	-1.509	0.860	30.295	1.00	0.00
ATOM	2675	CB	LEU	174	-3.631	2.540	29.919	1.00	0.00
ATOM	2676	CG	LEU	174	-4.385	3.805	29.530	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.364	4.005	28.024	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.815	3.755	30.046	1.00	0.00
ATOM	2681	H	LEU	174	-1.785	4.446	30.858	1.00	0.00
ATOM	2682	HA	LEU	174	-3.473	2.341	32.045	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.345	1.737	30.017	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.945	2.293	29.121	1.00	0.00
ATOM	2685	HG	LEU	174	-3.893	4.652	29.990	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.341	4.066	27.683	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.882	4.919	27.775	1.00	0.00
ATOM	2688	3HD1	LEU	174	-4.854	3.171	27.542	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.380	4.570	29.620	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.812	3.841	31.122	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.267	2.816	29.761	1.00	0.00
ATOM	2692	N	THR	175	-0.726	1.893	32.132	1.00	0.00
ATOM	2693	CA	THR	175	0.486	1.085	32.212	1.00	0.00
ATOM	2697	C	THR	175	0.174	-0.386	32.513	1.00	0.00
ATOM	2698	O	THR	175	0.931	-1.277	32.133	1.00	0.00
ATOM	2694	CB	THR	175	1.426	1.617	33.308	1.00	0.00
ATOM	2695	OG1	THR	175	0.678	2.400	34.252	1.00	0.00
ATOM	2696	CG2	THR	175	2.542	2.458	32.708	1.00	0.00
ATOM	2699	H	THR	175	-0.870	2.605	32.794	1.00	0.00
ATOM	2700	HA	THR	175	0.999	1.150	31.264	1.00	0.00
ATOM	2701	HB	THR	175	1.867	0.775	33.823	1.00	0.00
ATOM	2702	HG1	THR	175	0.670	3.328	33.977	1.00	0.00
ATOM	2703	1HG2	THR	175	3.169	1.834	32.089	1.00	0.00
ATOM	2704	2HG2	THR	175	3.136	2.889	33.501	1.00	0.00
ATOM	2705	3HG2	THR	175	2.116	3.248	32.108	1.00	0.00
ATOM	2706	N	GLY	176	-0.929	-0.629	33.217	1.00	0.00
ATOM	2707	CA	GLY	176	-1.305	-1.988	33.590	1.00	0.00
ATOM	2708	C	GLY	176	-1.982	-2.778	32.483	1.00	0.00
ATOM	2709	O	GLY	176	-2.495	-3.870	32.727	1.00	0.00
ATOM	2710	H	GLY	176	-1.483	0.124	33.513	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.974	-1.936	34.436	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.415	-2.518	33.890	1.00	0.00
ATOM	2713	N	ALA	177	-1.976	-2.244	31.267	1.00	0.00
ATOM	2714	CA	ALA	177	-2.591	-2.922	30.126	1.00	0.00
ATOM	2716	C	ALA	177	-1.720	-4.070	29.613	1.00	0.00
ATOM	2717	O	ALA	177	-1.974	-4.624	28.547	1.00	0.00
ATOM	2715	CB	ALA	177	-2.858	-1.925	29.011	1.00	0.00
ATOM	2718	H	ALA	177	-1.543	-1.375	31.131	1.00	0.00
ATOM	2719	HA	ALA	177	-3.544	-3.328	30.444	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.432	-2.293	28.089	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.408	-0.975	29.261	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.924	-1.799	28.889	1.00	0.00



ATOM	2723	N	VAL	178	-0.697	-4.428	30.377	1.00	0.00
ATOM	2724	CA	VAL	178	0.198	-5.514	30.004	1.00	0.00
ATOM	2728	C	VAL	178	-0.367	-6.852	30.471	1.00	0.00
ATOM	2729	O	VAL	178	0.144	-7.470	31.407	1.00	0.00
ATOM	2725	CB	VAL	178	1.614	-5.323	30.589	1.00	0.00
ATOM	2726	CG1	VAL	178	2.624	-6.154	29.818	1.00	0.00
ATOM	2727	CG2	VAL	178	2.014	-3.855	30.576	1.00	0.00
ATOM	2730	H	VAL	178	-0.548	-3.957	31.219	1.00	0.00
ATOM	2731	HA	VAL	178	0.275	-5.525	28.926	1.00	0.00
ATOM	2732	HB	VAL	178	1.608	-5.664	31.615	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.497	-6.323	30.432	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.912	-5.628	28.920	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.182	-7.103	29.553	1.00	0.00
ATOM	2736	1HG2	VAL	178	2.170	-3.515	31.589	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.228	-3.272	30.118	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.926	-3.735	30.012	1.00	0.00
ATOM	2739	N	ALA	179	-1.437	-7.284	29.824	1.00	0.00
ATOM	2740	CA	ALA	179	-2.084	-8.543	30.174	1.00	0.00
ATOM	2742	C	ALA	179	-1.753	-9.631	29.158	1.00	0.00
ATOM	2743	O	ALA	179	-2.386	-10.686	29.133	1.00	0.00
ATOM	2741	CB	ALA	179	-3.591	-8.353	30.283	1.00	0.00
ATOM	2744	H	ALA	179	-1.805	-6.739	29.097	1.00	0.00
ATOM	2745	HA	ALA	179	-1.715	-8.847	31.142	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.899	-7.542	29.639	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.852	-8.122	31.305	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.091	-9.262	29.981	1.00	0.00
ATOM	2749	N	LEU	180	-0.757	-9.372	28.323	1.00	0.00
ATOM	2750	CA	LEU	180	-0.345	-10.336	27.314	1.00	0.00
ATOM	2755	C	LEU	180	0.884	-11.100	27.789	1.00	0.00
ATOM	2756	O	LEU	180	0.911	-12.331	27.773	1.00	0.00
ATOM	2751	CB	LEU	180	-0.054	-9.634	25.984	1.00	0.00
ATOM	2752	CG	LEU	180	-1.118	-8.634	25.526	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.612	-7.811	24.352	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.405	-9.357	25.153	1.00	0.00
ATOM	2757	H	LEU	180	-0.285	-8.516	28.391	1.00	0.00
ATOM	2758	HA	LEU	180	-1.156	-11.035	27.173	1.00	0.00
ATOM	2759	1HB	LEU	180	0.050	-10.388	25.219	1.00	0.00
ATOM	2760	2HB	LEU	180	0.885	-9.108	26.079	1.00	0.00
ATOM	2761	HG	LEU	180	-1.339	-7.957	26.338	1.00	0.00
ATOM	2762	1HD1	LEU	180	0.360	-8.173	24.052	1.00	0.00
ATOM	2763	2HD1	LEU	180	-0.537	-6.775	24.646	1.00	0.00
ATOM	2764	3HD1	LEU	180	-1.301	-7.902	23.526	1.00	0.00
ATOM	2765	1HD2	LEU	180	-3.097	-8.653	24.713	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.845	-9.788	26.039	1.00	0.00
ATOM	2767	3HD2	LEU	180	-2.184	-10.139	24.442	1.00	0.00
ATOM	2768	N	GLY	181	1.897	-10.356	28.211	1.00	0.00
ATOM	2769	CA	GLY	181	3.121	-10.953	28.696	1.00	0.00
ATOM	2770	C	GLY	181	2.933	-11.597	30.046	1.00	0.00
ATOM	2771	O	GLY	181	2.982	-10.925	31.076	1.00	0.00
ATOM	2772	H	GLY	181	1.813	-9.379	28.192	1.00	0.00
ATOM	2773	1HA	GLY	181	3.879	-10.186	28.774	1.00	0.00
ATOM	2774	2HA	GLY	181	3.450	-11.701	27.989	1.00	0.00
ATOM	2775	N	ALA	182	2.706	-12.899	30.039	1.00	0.00
ATOM	2776	CA	ALA	182	2.494	-13.638	31.271	1.00	0.00
ATOM	2778	C	ALA	182	3.799	-14.213	31.795	1.00	0.00
ATOM	2779	O	ALA	182	4.722	-14.491	31.027	1.00	0.00
ATOM	2777	CB	ALA	182	1.475	-14.747	31.058	1.00	0.00
ATOM	2780	H	ALA	182	2.674	-13.375	29.178	1.00	0.00
ATOM	2781	HA	ALA	182	2.094	-12.953	32.005	1.00	0.00
ATOM	2782	1HB	ALA	182	1.989	-15.690	30.942	1.00	0.00
ATOM	2783	2HB	ALA	182	0.897	-14.541	30.169	1.00	0.00
ATOM	2784	3HB	ALA	182	0.817	-14.800	31.912	1.00	0.00
ATOM	2785	N	LEU	183	3.864	-14.392	33.104	1.00	0.00
ATOM	2790	CA	LEU	183	5.043	-14.938	33.751	1.00	0.00
ATOM	2791	C	LEU	183	4.617	-15.888	34.858	1.00	0.00
ATOM	2792	O	LEU	183	5.163	-17.002	34.940	1.00	0.00
ATOM	2786	CB	LEU	183	5.919	-13.818	34.324	1.00	0.00
ATOM	2787	CG	LEU	183	5.255	-12.439	34.401	1.00	0.00
ATOM	2788	CD1	LEU	183	4.734	-12.174	35.804	1.00	0.00
ATOM	2789	CD2	LEU	183	6.234	-11.353	33.982	1.00	0.00
ATOM	2793	OXT	LEU	183	3.711	-15.514	35.631	1.00	0.00
ATOM	2794	H	LEU	183	3.092	-14.155	33.658	1.00	0.00
ATOM	2795	HA	LEU	183	5.606	-15.489	33.013	1.00	0.00



ATOM	2796	1HB	LEU	183	6.803	-13.733	33.710	1.00	0.00
ATOM	2797	2HB	LEU	183	6.221	-14.103	35.321	1.00	0.00
ATOM	2798	HG	LEU	183	4.415	-12.413	33.723	1.00	0.00
ATOM	2799	1HD1	LEU	183	3.665	-12.026	35.769	1.00	0.00
ATOM	2800	2HD1	LEU	183	5.208	-11.289	36.203	1.00	0.00
ATOM	2801	3HD1	LEU	183	4.959	-13.020	36.437	1.00	0.00
ATOM	2802	1HD2	LEU	183	7.242	-11.736	34.037	1.00	0.00
ATOM	2803	2HD2	LEU	183	6.134	-10.505	34.644	1.00	0.00
ATOM	2804	3HD2	LEU	183	6.020	-11.046	32.969	1.00	0.00
ENDMDL									
MODEL 17									
ATOM	3	N	GLY	-4	-19.812	-13.897	-3.378	1.00	0.00
ATOM	4	CA	GLY	-4	-21.092	-14.594	-3.111	1.00	0.00
ATOM	1	C	GLY	-4	-21.565	-15.375	-4.318	1.00	0.00
ATOM	2	O	GLY	-4	-20.770	-16.067	-4.953	1.00	0.00
ATOM	5	1HA	GLY	-4	-20.958	-15.274	-2.284	1.00	0.00
ATOM	6	2HA	GLY	-4	-21.843	-13.864	-2.850	1.00	0.00
ATOM	7	1HT	GLY	-4	-19.619	-13.883	-4.401	1.00	0.00
ATOM	8	2HT	GLY	-4	-19.029	-14.389	-2.894	1.00	0.00
ATOM	9	3HT	GLY	-4	-19.860	-12.914	-3.033	1.00	0.00
ATOM	10	N	PRO	-3	-22.857	-15.277	-4.667	1.00	0.00
ATOM	11	CA	PRO	-3	-23.425	-15.980	-5.821	1.00	0.00
ATOM	15	C	PRO	-3	-22.728	-15.585	-7.119	1.00	0.00
ATOM	16	O	PRO	-3	-22.486	-14.399	-7.361	1.00	0.00
ATOM	12	CB	PRO	-3	-24.890	-15.527	-5.844	1.00	0.00
ATOM	13	CG	PRO	-3	-25.163	-15.037	-4.465	1.00	0.00
ATOM	14	CD	PRO	-3	-23.867	-14.465	-3.968	1.00	0.00
ATOM	17	HA	PRO	-3	-23.376	-17.052	-5.698	1.00	0.00
ATOM	18	1HB	PRO	-3	-25.524	-16.365	-6.097	1.00	0.00
ATOM	19	2HB	PRO	-3	-25.015	-14.742	-6.575	1.00	0.00
ATOM	20	1HG	PRO	-3	-25.475	-15.859	-3.836	1.00	0.00
ATOM	21	2HG	PRO	-3	-25.925	-14.272	-4.489	1.00	0.00
ATOM	22	1HD	PRO	-3	-23.785	-14.585	-2.898	1.00	0.00
ATOM	23	2HD	PRO	-3	-23.782	-13.424	-4.243	1.00	0.00
ATOM	24	N	LEU	-2	-22.399	-16.592	-7.927	1.00	0.00
ATOM	25	CA	LEU	-2	-21.711	-16.414	-9.211	1.00	0.00
ATOM	30	C	LEU	-2	-20.242	-16.034	-9.009	1.00	0.00
ATOM	31	O	LEU	-2	-19.346	-16.710	-9.515	1.00	0.00
ATOM	26	CB	LEU	-2	-22.418	-15.371	-10.089	1.00	0.00
ATOM	27	CG	LEU	-2	-23.275	-15.944	-11.223	1.00	0.00
ATOM	28	CD1	LEU	-2	-22.532	-17.053	-11.957	1.00	0.00
ATOM	29	CD2	LEU	-2	-24.603	-16.454	-10.682	1.00	0.00
ATOM	32	H	LEU	-2	-22.623	-17.509	-7.641	1.00	0.00
ATOM	33	HA	LEU	-2	-21.741	-17.366	-9.719	1.00	0.00
ATOM	34	1HB	LEU	-2	-21.665	-14.733	-10.527	1.00	0.00
ATOM	35	2HB	LEU	-2	-23.052	-14.769	-9.456	1.00	0.00
ATOM	36	HG	LEU	-2	-23.485	-15.159	-11.935	1.00	0.00
ATOM	37	1HD1	LEU	-2	-23.140	-17.945	-11.971	1.00	0.00
ATOM	38	2HD1	LEU	-2	-21.600	-17.258	-11.449	1.00	0.00
ATOM	39	3HD1	LEU	-2	-22.328	-16.739	-12.969	1.00	0.00
ATOM	40	1HD2	LEU	-2	-24.768	-17.465	-11.026	1.00	0.00
ATOM	41	2HD2	LEU	-2	-25.403	-15.819	-11.033	1.00	0.00
ATOM	42	3HD2	LEU	-2	-24.581	-16.442	-9.602	1.00	0.00
ATOM	43	N	GLY	-1	-20.002	-14.965	-8.263	1.00	0.00
ATOM	44	CA	GLY	-1	-18.649	-14.525	-8.002	1.00	0.00
ATOM	45	C	GLY	-1	-18.606	-13.342	-7.059	1.00	0.00
ATOM	46	O	GLY	-1	-19.265	-13.347	-6.015	1.00	0.00
ATOM	47	H	GLY	-1	-20.759	-14.470	-7.875	1.00	0.00
ATOM	48	1HA	GLY	-1	-18.185	-14.244	-8.936	1.00	0.00
ATOM	49	2HA	GLY	-1	-18.093	-15.342	-7.565	1.00	0.00
ATOM	50	N	SER	0	-17.843	-12.325	-7.428	1.00	0.00
ATOM	51	CA	SER	0	-17.719	-11.122	-6.618	1.00	0.00
ATOM	54	C	SER	0	-18.085	-9.891	-7.440	1.00	0.00
ATOM	55	O	SER	0	-18.315	-9.989	-8.646	1.00	0.00
ATOM	52	CB	SER	0	-16.287	-10.983	-6.085	1.00	0.00
ATOM	53	OG	SER	0	-15.891	-12.131	-5.351	1.00	0.00
ATOM	56	H	SER	0	-17.351	-12.379	-8.273	1.00	0.00
ATOM	57	HA	SER	0	-18.401	-11.206	-5.786	1.00	0.00
ATOM	58	1HB	SER	0	-16.230	-10.121	-5.438	1.00	0.00
ATOM	59	2HB	SER	0	-15.609	-10.855	-6.915	1.00	0.00
ATOM	60	HG	SER	0	-15.102	-12.520	-5.765	1.00	0.00
ATOM	61	N	MET	1	-18.135	-8.740	-6.782	1.00	0.00
ATOM	62	CA	MET	1	-18.467	-7.487	-7.447	1.00	0.00



ATOM	67	C	MET	1	-17.458	-6.412	-7.067	1.00	0.00
ATOM	68	O	MET	1	-17.234	-6.147	-5.886	1.00	0.00
ATOM	63	CB	MET	1	-19.878	-7.037	-7.065	1.00	0.00
ATOM	64	CG	MET	1	-20.972	-7.689	-7.895	1.00	0.00
ATOM	65	SD	MET	1	-21.885	-8.946	-6.977	1.00	0.00
ATOM	66	CE	MET	1	-21.909	-10.284	-8.170	1.00	0.00
ATOM	69	H	MET	1	-17.941	-8.728	-5.823	1.00	0.00
ATOM	70	HA	MET	1	-18.422	-7.651	-8.514	1.00	0.00
ATOM	71	1HB	MET	1	-19.949	-5.968	-7.191	1.00	0.00
ATOM	72	2HB	MET	1	-20.052	-7.280	-6.026	1.00	0.00
ATOM	73	1HG	MET	1	-20.521	-8.152	-8.760	1.00	0.00
ATOM	74	2HG	MET	1	-21.665	-6.925	-8.217	1.00	0.00
ATOM	75	1HE	MET	1	-22.675	-10.995	-7.900	1.00	0.00
ATOM	76	2HE	MET	1	-20.947	-10.777	-8.177	1.00	0.00
ATOM	77	3HE	MET	1	-22.115	-9.886	-9.152	1.00	0.00
ATOM	78	N	ALA	2	-16.846	-5.804	-8.069	1.00	0.00
ATOM	79	CA	ALA	2	-15.859	-4.764	-7.843	1.00	0.00
ATOM	81	C	ALA	2	-16.477	-3.386	-8.041	1.00	0.00
ATOM	82	O	ALA	2	-17.346	-3.202	-8.894	1.00	0.00
ATOM	80	CB	ALA	2	-14.670	-4.953	-8.773	1.00	0.00
ATOM	83	H	ALA	2	-17.064	-6.067	-8.991	1.00	0.00
ATOM	84	HA	ALA	2	-15.509	-4.849	-6.824	1.00	0.00
ATOM	85	1HB	ALA	2	-13.950	-5.608	-8.305	1.00	0.00
ATOM	86	2HB	ALA	2	-14.211	-3.996	-8.972	1.00	0.00
ATOM	87	3HB	ALA	2	-15.006	-5.392	-9.702	1.00	0.00
ATOM	88	N	THR	3	-16.033	-2.425	-7.248	1.00	0.00
ATOM	89	CA	THR	3	-16.545	-1.074	-7.338	1.00	0.00
ATOM	93	C	THR	3	-15.525	-0.155	-8.010	1.00	0.00
ATOM	94	O	THR	3	-14.322	-0.262	-7.763	1.00	0.00
ATOM	90	CB	THR	3	-16.915	-0.525	-5.940	1.00	0.00
ATOM	91	OG1	THR	3	-15.760	0.025	-5.293	1.00	0.00
ATOM	92	CG2	THR	3	-17.504	-1.618	-5.057	1.00	0.00
ATOM	95	H	THR	3	-15.345	-2.624	-6.584	1.00	0.00
ATOM	96	HA	THR	3	-17.440	-1.098	-7.940	1.00	0.00
ATOM	97	HB	THR	3	-17.651	0.250	-6.063	1.00	0.00
ATOM	98	HG1	THR	3	-16.008	0.836	-4.827	1.00	0.00
ATOM	99	1HG2	THR	3	-17.029	-2.561	-5.286	1.00	0.00
ATOM	100	2HG2	THR	3	-18.565	-1.695	-5.240	1.00	0.00
ATOM	101	3HG2	THR	3	-17.334	-1.370	-4.020	1.00	0.00
ATOM	102	N	PRO	4	-15.989	0.754	-8.884	1.00	0.00
ATOM	103	CA	PRO	4	-15.116	1.686	-9.605	1.00	0.00
ATOM	107	C	PRO	4	-14.654	2.848	-8.725	1.00	0.00
ATOM	108	O	PRO	4	-13.940	3.745	-9.181	1.00	0.00
ATOM	104	CB	PRO	4	-16.000	2.206	-10.753	1.00	0.00
ATOM	105	CG	PRO	4	-17.282	1.437	-10.671	1.00	0.00
ATOM	106	CD	PRO	4	-17.391	0.942	-9.259	1.00	0.00
ATOM	109	HA	PRO	4	-14.253	1.183	-10.010	1.00	0.00
ATOM	110	1HB	PRO	4	-15.500	2.036	-11.696	1.00	0.00
ATOM	111	2HB	PRO	4	-16.170	3.264	-10.620	1.00	0.00
ATOM	112	1HG	PRO	4	-17.254	0.604	-11.359	1.00	0.00
ATOM	113	2HG	PRO	4	-18.114	2.085	-10.904	1.00	0.00
ATOM	114	1HD	PRO	4	-17.930	0.007	-9.224	1.00	0.00
ATOM	115	2HD	PRO	4	-17.866	1.683	-8.633	1.00	0.00
ATOM	116	N	ALA	5	-15.068	2.817	-7.467	1.00	0.00
ATOM	117	CA	ALA	5	-14.712	3.847	-6.504	1.00	0.00
ATOM	119	C	ALA	5	-14.844	3.309	-5.087	1.00	0.00
ATOM	120	O	ALA	5	-15.841	2.665	-4.752	1.00	0.00
ATOM	118	CB	ALA	5	-15.595	5.075	-6.686	1.00	0.00
ATOM	121	H	ALA	5	-15.626	2.068	-7.175	1.00	0.00
ATOM	122	HA	ALA	5	-13.686	4.135	-6.681	1.00	0.00
ATOM	123	1HB	ALA	5	-16.620	4.818	-6.463	1.00	0.00
ATOM	124	2HB	ALA	5	-15.524	5.422	-7.706	1.00	0.00
ATOM	125	3HB	ALA	5	-15.267	5.856	-6.017	1.00	0.00
ATOM	126	N	SER	6	-13.842	3.570	-4.264	1.00	0.00
ATOM	127	CA	SER	6	-13.843	3.114	-2.884	1.00	0.00
ATOM	130	C	SER	6	-13.093	4.110	-2.006	1.00	0.00
ATOM	131	O	SER	6	-12.477	5.048	-2.513	1.00	0.00
ATOM	128	CB	SER	6	-13.209	1.724	-2.782	1.00	0.00
ATOM	129	OG	SER	6	-14.191	0.709	-2.897	1.00	0.00
ATOM	132	H	SER	6	-13.077	4.088	-4.590	1.00	0.00
ATOM	133	HA	SER	6	-14.871	3.060	-2.551	1.00	0.00
ATOM	134	1HB	SER	6	-12.717	1.626	-1.825	1.00	0.00
ATOM	135	2HB	SER	6	-12.487	1.602	-3.575	1.00	0.00



ATOM	136	HG	SER	6	-14.237	0.402	-3.810	1.00	0.00
ATOM	137	N	ALA	7	-13.148	3.911	-0.698	1.00	0.00
ATOM	138	CA	ALA	7	-12.474	4.802	0.236	1.00	0.00
ATOM	140	C	ALA	7	-11.524	4.027	1.143	1.00	0.00
ATOM	141	O	ALA	7	-11.858	2.940	1.620	1.00	0.00
ATOM	139	CB	ALA	7	-13.497	5.567	1.066	1.00	0.00
ATOM	142	H	ALA	7	-13.657	3.148	-0.348	1.00	0.00
ATOM	143	HA	ALA	7	-11.903	5.518	-0.338	1.00	0.00
ATOM	144	1HB	ALA	7	-13.296	6.626	0.999	1.00	0.00
ATOM	145	2HB	ALA	7	-13.433	5.253	2.098	1.00	0.00
ATOM	146	3HB	ALA	7	-14.489	5.365	0.690	1.00	0.00
ATOM	147	N	PRO	8	-10.324	4.575	1.390	1.00	0.00
ATOM	148	CA	PRO	8	-9.316	3.945	2.242	1.00	0.00
ATOM	152	C	PRO	8	-9.643	4.121	3.722	1.00	0.00
ATOM	153	O	PRO	8	-8.980	4.874	4.435	1.00	0.00
ATOM	149	CB	PRO	8	-8.015	4.684	1.886	1.00	0.00
ATOM	150	CG	PRO	8	-8.362	5.627	0.776	1.00	0.00
ATOM	151	CD	PRO	8	-9.843	5.853	0.860	1.00	0.00
ATOM	154	HA	PRO	8	-9.211	2.893	2.019	1.00	0.00
ATOM	155	1HB	PRO	8	-7.269	3.969	1.573	1.00	0.00
ATOM	156	2HB	PRO	8	-7.659	5.219	2.755	1.00	0.00
ATOM	157	1HG	PRO	8	-8.104	5.184	-0.174	1.00	0.00
ATOM	158	2HG	PRO	8	-7.834	6.560	0.910	1.00	0.00
ATOM	159	1HD	PRO	8	-10.255	6.046	-0.119	1.00	0.00
ATOM	160	2HD	PRO	8	-10.066	6.664	1.537	1.00	0.00
ATOM	161	N	ASP	9	-10.684	3.432	4.169	1.00	0.00
ATOM	162	CA	ASP	9	-11.124	3.515	5.557	1.00	0.00
ATOM	167	C	ASP	9	-10.221	2.688	6.476	1.00	0.00
ATOM	168	O	ASP	9	-9.148	2.230	6.075	1.00	0.00
ATOM	163	CB	ASP	9	-12.579	3.043	5.685	1.00	0.00
ATOM	164	CG	ASP	9	-13.348	3.782	6.771	1.00	0.00
ATOM	165	OD1	ASP	9	-12.954	3.691	7.955	1.00	0.00
ATOM	166	OD2	ASP	9	-14.356	4.444	6.448	1.00	0.00
ATOM	169	H	ASP	9	-11.180	2.862	3.543	1.00	0.00
ATOM	170	HA	ASP	9	-11.065	4.551	5.858	1.00	0.00
ATOM	171	1HB	ASP	9	-12.588	1.988	5.919	1.00	0.00
ATOM	172	2HB	ASP	9	-13.085	3.202	4.744	1.00	0.00
ATOM	173	N	THR	10	-10.678	2.508	7.705	1.00	0.00
ATOM	174	CA	THR	10	-9.965	1.758	8.727	1.00	0.00
ATOM	178	C	THR	10	-9.568	0.368	8.240	1.00	0.00
ATOM	179	O	THR	10	-8.486	-0.114	8.554	1.00	0.00
ATOM	175	CB	THR	10	-10.830	1.622	9.993	1.00	0.00
ATOM	176	OG1	THR	10	-12.221	1.691	9.641	1.00	0.00
ATOM	177	CG2	THR	10	-10.501	2.716	10.999	1.00	0.00
ATOM	180	H	THR	10	-11.545	2.908	7.940	1.00	0.00
ATOM	181	HA	THR	10	-9.072	2.311	8.986	1.00	0.00
ATOM	182	HB	THR	10	-10.628	0.663	10.448	1.00	0.00
ATOM	183	HG1	THR	10	-12.427	2.564	9.273	1.00	0.00
ATOM	184	1HG2	THR	10	-11.182	2.654	11.834	1.00	0.00
ATOM	185	2HG2	THR	10	-10.600	3.683	10.526	1.00	0.00
ATOM	186	3HG2	THR	10	-9.487	2.590	11.350	1.00	0.00
ATOM	187	N	ARG	11	-10.446	-0.269	7.471	1.00	0.00
ATOM	188	CA	ARG	11	-10.177	-1.604	6.943	1.00	0.00
ATOM	196	C	ARG	11	-8.963	-1.584	6.025	1.00	0.00
ATOM	197	O	ARG	11	-8.142	-2.499	6.046	1.00	0.00
ATOM	189	CB	ARG	11	-11.401	-2.136	6.190	1.00	0.00
ATOM	190	CG	ARG	11	-11.151	-3.446	5.457	1.00	0.00
ATOM	191	CD	ARG	11	-12.400	-3.932	4.743	1.00	0.00
ATOM	192	NE	ARG	11	-12.178	-4.131	3.311	1.00	0.00
ATOM	193	CZ	ARG	11	-13.124	-3.962	2.382	1.00	0.00
ATOM	194	NH1	ARG	11	-14.331	-3.529	2.734	1.00	0.00
ATOM	195	NH2	ARG	11	-12.856	-4.210	1.103	1.00	0.00
ATOM	198	H	ARG	11	-11.297	0.172	7.256	1.00	0.00
ATOM	199	HA	ARG	11	-9.960	-2.256	7.778	1.00	0.00
ATOM	200	1HB	ARG	11	-11.711	-1.397	5.466	1.00	0.00
ATOM	201	2HB	ARG	11	-12.202	-2.294	6.896	1.00	0.00
ATOM	202	1HG	ARG	11	-10.841	-4.194	6.173	1.00	0.00
ATOM	203	2HG	ARG	11	-10.368	-3.297	4.728	1.00	0.00
ATOM	204	1HD	ARG	11	-13.183	-3.199	4.878	1.00	0.00
ATOM	205	2HD	ARG	11	-12.708	-4.868	5.183	1.00	0.00
ATOM	206	HE	ARG	11	-11.281	-4.421	3.030	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.540	-3.325	3.700	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.046	-3.399	2.037	1.00	0.00



ATOM	209	1HH2	ARG	11	-11.944	-4.523	0.827	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.571	-4.093	0.404	1.00	0.00
ATOM	211	N	ALA	12	-8.837	-0.531	5.235	1.00	0.00
ATOM	212	CA	ALA	12	-7.709	-0.402	4.334	1.00	0.00
ATOM	214	C	ALA	12	-6.458	-0.027	5.117	1.00	0.00
ATOM	215	O	ALA	12	-5.353	-0.455	4.792	1.00	0.00
ATOM	213	CB	ALA	12	-7.998	0.631	3.255	1.00	0.00
ATOM	216	H	ALA	12	-9.509	0.182	5.271	1.00	0.00
ATOM	217	HA	ALA	12	-7.553	-1.359	3.855	1.00	0.00
ATOM	218	1HB	ALA	12	-8.888	0.347	2.713	1.00	0.00
ATOM	219	2HB	ALA	12	-7.163	0.682	2.572	1.00	0.00
ATOM	220	3HB	ALA	12	-8.148	1.597	3.713	1.00	0.00
ATOM	221	N	LEU	13	-6.645	0.775	6.156	1.00	0.00
ATOM	222	CA	LEU	13	-5.536	1.213	6.992	1.00	0.00
ATOM	227	C	LEU	13	-5.018	0.067	7.868	1.00	0.00
ATOM	228	O	LEU	13	-3.810	-0.109	8.016	1.00	0.00
ATOM	223	CB	LEU	13	-5.969	2.406	7.844	1.00	0.00
ATOM	224	CG	LEU	13	-5.185	2.612	9.139	1.00	0.00
ATOM	225	CD1	LEU	13	-3.942	3.450	8.884	1.00	0.00
ATOM	226	CD2	LEU	13	-6.068	3.270	10.184	1.00	0.00
ATOM	229	H	LEU	13	-7.558	1.087	6.367	1.00	0.00
ATOM	230	HA	LEU	13	-4.738	1.528	6.333	1.00	0.00
ATOM	231	1HB	LEU	13	-7.011	2.279	8.098	1.00	0.00
ATOM	232	2HB	LEU	13	-5.868	3.299	7.244	1.00	0.00
ATOM	233	HG	LEU	13	-4.869	1.652	9.520	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.237	3.302	9.689	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.215	4.493	8.832	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.490	3.149	7.950	1.00	0.00
ATOM	237	1HD2	LEU	13	-7.060	2.845	10.137	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.122	4.332	9.993	1.00	0.00
ATOM	239	3HD2	LEU	13	-5.650	3.101	11.165	1.00	0.00
ATOM	240	N	VAL	14	-5.931	-0.718	8.438	1.00	0.00
ATOM	241	CA	VAL	14	-5.540	-1.843	9.281	1.00	0.00
ATOM	245	C	VAL	14	-4.820	-2.893	8.440	1.00	0.00
ATOM	246	O	VAL	14	-3.860	-3.522	8.893	1.00	0.00
ATOM	242	CB	VAL	14	-6.750	-2.474	10.031	1.00	0.00
ATOM	243	CG1	VAL	14	-7.637	-3.290	9.103	1.00	0.00
ATOM	244	CG2	VAL	14	-6.270	-3.331	11.195	1.00	0.00
ATOM	247	H	VAL	14	-6.885	-0.538	8.284	1.00	0.00
ATOM	248	HA	VAL	14	-4.846	-1.466	10.021	1.00	0.00
ATOM	249	HB	VAL	14	-7.348	-1.672	10.437	1.00	0.00
ATOM	250	1HG1	VAL	14	-7.551	-2.908	8.096	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.664	-3.216	9.428	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.326	-4.324	9.124	1.00	0.00
ATOM	253	1HG2	VAL	14	-6.837	-4.250	11.224	1.00	0.00
ATOM	254	2HG2	VAL	14	-6.411	-2.793	12.121	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.222	-3.558	11.067	1.00	0.00
ATOM	256	N	ALA	15	-5.271	-3.054	7.200	1.00	0.00
ATOM	257	CA	ALA	15	-4.657	-4.001	6.283	1.00	0.00
ATOM	259	C	ALA	15	-3.304	-3.479	5.813	1.00	0.00
ATOM	260	O	ALA	15	-2.435	-4.252	5.413	1.00	0.00
ATOM	258	CB	ALA	15	-5.569	-4.258	5.092	1.00	0.00
ATOM	261	H	ALA	15	-6.033	-2.510	6.893	1.00	0.00
ATOM	262	HA	ALA	15	-4.513	-4.934	6.808	1.00	0.00
ATOM	263	1HB	ALA	15	-5.359	-3.538	4.314	1.00	0.00
ATOM	264	2HB	ALA	15	-6.600	-4.162	5.401	1.00	0.00
ATOM	265	3HB	ALA	15	-5.399	-5.255	4.715	1.00	0.00
ATOM	266	N	ASP	16	-3.139	-2.162	5.877	1.00	0.00
ATOM	267	CA	ASP	16	-1.897	-1.508	5.468	1.00	0.00
ATOM	272	C	ASP	16	-0.805	-1.707	6.512	1.00	0.00
ATOM	273	O	ASP	16	0.198	-2.361	6.247	1.00	0.00
ATOM	268	CB	ASP	16	-2.144	-0.010	5.239	1.00	0.00
ATOM	269	CG	ASP	16	-0.896	0.851	5.391	1.00	0.00
ATOM	270	OD1	ASP	16	0.061	0.659	4.618	1.00	0.00
ATOM	271	OD2	ASP	16	-0.901	1.757	6.256	1.00	0.00
ATOM	274	H	ASP	16	-3.876	-1.607	6.210	1.00	0.00
ATOM	275	HA	ASP	16	-1.577	-1.956	4.541	1.00	0.00
ATOM	276	1HB	ASP	16	-2.882	0.335	5.950	1.00	0.00
ATOM	277	2HB	ASP	16	-2.528	0.132	4.241	1.00	0.00
ATOM	278	N	PHE	17	-1.009	-1.132	7.693	1.00	0.00
ATOM	279	CA	PHE	17	-0.040	-1.224	8.783	1.00	0.00
ATOM	287	C	PHE	17	0.335	-2.669	9.091	1.00	0.00
ATOM	288	O	PHE	17	1.518	-3.017	9.147	1.00	0.00



ATOM	280	CB	PHE	17	-0.592	-0.558	10.042	1.00	0.00
ATOM	281	CG	PHE	17	0.480	-0.088	10.984	1.00	0.00
ATOM	282	CD1	PHE	17	1.519	0.710	10.530	1.00	0.00
ATOM	283	CD2	PHE	17	0.455	-0.452	12.319	1.00	0.00
ATOM	284	CE1	PHE	17	2.511	1.135	11.393	1.00	0.00
ATOM	285	CE2	PHE	17	1.444	-0.031	13.186	1.00	0.00
ATOM	286	CZ	PHE	17	2.472	0.765	12.723	1.00	0.00
ATOM	289	H	PHE	17	-1.833	-0.617	7.829	1.00	0.00
ATOM	290	HA	PHE	17	0.850	-0.697	8.475	1.00	0.00
ATOM	291	1HB	PHE	17	-1.215	-1.264	10.571	1.00	0.00
ATOM	292	2HB	PHE	17	-1.186	0.299	9.760	1.00	0.00
ATOM	293	HD1	PHE	17	-0.350	-1.074	12.683	1.00	0.00
ATOM	294	HD2	PHE	17	1.549	1.001	9.491	1.00	0.00
ATOM	295	HE1	PHE	17	1.411	-0.321	14.226	1.00	0.00
ATOM	296	HE2	PHE	17	3.314	1.758	11.028	1.00	0.00
ATOM	297	HZ	PHE	17	3.247	1.095	13.399	1.00	0.00
ATOM	298	N	VAL	18	-0.671	-3.507	9.291	1.00	0.00
ATOM	299	CA	VAL	18	-0.431	-4.909	9.592	1.00	0.00
ATOM	303	C	VAL	18	0.127	-5.626	8.369	1.00	0.00
ATOM	304	O	VAL	18	1.077	-6.396	8.475	1.00	0.00
ATOM	300	CB	VAL	18	-1.720	-5.614	10.072	1.00	0.00
ATOM	301	CG1	VAL	18	-1.468	-7.088	10.345	1.00	0.00
ATOM	302	CG2	VAL	18	-2.271	-4.926	11.314	1.00	0.00
ATOM	305	H	VAL	18	-1.593	-3.176	9.233	1.00	0.00
ATOM	306	HA	VAL	18	0.304	-4.958	10.386	1.00	0.00
ATOM	307	HB	VAL	18	-2.460	-5.538	9.290	1.00	0.00
ATOM	308	1HG1	VAL	18	-0.730	-7.462	9.650	1.00	0.00
ATOM	309	2HG1	VAL	18	-2.389	-7.640	10.224	1.00	0.00
ATOM	310	3HG1	VAL	18	-1.106	-7.211	11.356	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.033	-5.514	12.188	1.00	0.00
ATOM	312	2HG2	VAL	18	-3.343	-4.829	11.226	1.00	0.00
ATOM	313	3HG2	VAL	18	-1.828	-3.946	11.409	1.00	0.00
ATOM	314	N	GLY	19	-0.453	-5.353	7.209	1.00	0.00
ATOM	315	CA	GLY	19	0.011	-5.973	5.984	1.00	0.00
ATOM	316	C	GLY	19	1.468	-5.678	5.710	1.00	0.00
ATOM	317	O	GLY	19	2.250	-6.585	5.452	1.00	0.00
ATOM	318	H	GLY	19	-1.196	-4.712	7.179	1.00	0.00
ATOM	319	1HA	GLY	19	-0.582	-5.605	5.159	1.00	0.00
ATOM	320	2HA	GLY	19	-0.122	-7.042	6.062	1.00	0.00
ATOM	321	N	TYR	20	1.819	-4.405	5.762	1.00	0.00
ATOM	322	CA	TYR	20	3.180	-3.948	5.522	1.00	0.00
ATOM	331	C	TYR	20	4.163	-4.597	6.493	1.00	0.00
ATOM	332	O	TYR	20	5.194	-5.117	6.081	1.00	0.00
ATOM	323	CB	TYR	20	3.248	-2.426	5.669	1.00	0.00
ATOM	324	CG	TYR	20	4.355	-1.777	4.872	1.00	0.00
ATOM	325	CD1	TYR	20	5.671	-1.816	5.314	1.00	0.00
ATOM	326	CD2	TYR	20	4.081	-1.121	3.681	1.00	0.00
ATOM	327	CE1	TYR	20	6.683	-1.221	4.590	1.00	0.00
ATOM	328	CE2	TYR	20	5.089	-0.522	2.951	1.00	0.00
ATOM	329	CZ	TYR	20	6.387	-0.575	3.410	1.00	0.00
ATOM	330	OH	TYR	20	7.392	0.021	2.688	1.00	0.00
ATOM	333	H	TYR	20	1.129	-3.736	5.963	1.00	0.00
ATOM	334	HA	TYR	20	3.449	-4.217	4.511	1.00	0.00
ATOM	335	1HB	TYR	20	3.402	-2.182	6.710	1.00	0.00
ATOM	336	2HB	TYR	20	2.312	-1.999	5.342	1.00	0.00
ATOM	337	HD1	TYR	20	3.063	-1.083	3.323	1.00	0.00
ATOM	338	HD2	TYR	20	5.899	-2.325	6.239	1.00	0.00
ATOM	339	HE1	TYR	20	4.857	-0.015	2.026	1.00	0.00
ATOM	340	HE2	TYR	20	7.700	-1.263	4.948	1.00	0.00
ATOM	341	HH	TYR	20	7.167	-0.002	1.746	1.00	0.00
ATOM	342	N	LYS	21	3.834	-4.551	7.779	1.00	0.00
ATOM	343	CA	LYS	21	4.688	-5.120	8.819	1.00	0.00
ATOM	349	C	LYS	21	4.852	-6.626	8.647	1.00	0.00
ATOM	350	O	LYS	21	5.921	-7.179	8.908	1.00	0.00
ATOM	344	CB	LYS	21	4.104	-4.812	10.202	1.00	0.00
ATOM	345	CG	LYS	21	5.113	-4.226	11.177	1.00	0.00
ATOM	346	CD	LYS	21	5.795	-5.311	11.999	1.00	0.00
ATOM	347	CE	LYS	21	6.422	-4.744	13.263	1.00	0.00
ATOM	348	NZ	LYS	21	7.575	-3.855	12.963	1.00	0.00
ATOM	351	H	LYS	21	2.994	-4.116	8.039	1.00	0.00
ATOM	352	HA	LYS	21	5.659	-4.657	8.739	1.00	0.00
ATOM	353	1HB	LYS	21	3.709	-5.722	10.626	1.00	0.00
ATOM	354	2HB	LYS	21	3.297	-4.102	10.085	1.00	0.00



ATOM	355	1HG	LYS	21	4.602	-3.548	11.844	1.00	0.00
ATOM	356	2HG	LYS	21	5.865	-3.686	10.620	1.00	0.00
ATOM	357	1HD	LYS	21	6.565	-5.771	11.399	1.00	0.00
ATOM	358	2HD	LYS	21	5.061	-6.052	12.275	1.00	0.00
ATOM	359	1HE	LYS	21	6.762	-5.564	13.879	1.00	0.00
ATOM	360	2HE	LYS	21	5.675	-4.179	13.799	1.00	0.00
ATOM	361	1HZ	LYS	21	7.472	-3.431	12.023	1.00	0.00
ATOM	362	2HZ	LYS	21	8.463	-4.391	12.996	1.00	0.00
ATOM	363	3HZ	LYS	21	7.628	-3.085	13.676	1.00	0.00
ATOM	364	N	LEU	22	3.792	-7.281	8.205	1.00	0.00
ATOM	365	CA	LEU	22	3.816	-8.715	7.996	1.00	0.00
ATOM	370	C	LEU	22	4.569	-9.031	6.718	1.00	0.00
ATOM	371	O	LEU	22	5.444	-9.881	6.701	1.00	0.00
ATOM	366	CB	LEU	22	2.393	-9.275	7.910	1.00	0.00
ATOM	367	CG	LEU	22	1.789	-9.762	9.231	1.00	0.00
ATOM	368	CD1	LEU	22	1.862	-8.676	10.292	1.00	0.00
ATOM	369	CD2	LEU	22	0.351	-10.201	9.012	1.00	0.00
ATOM	372	H	LEU	22	2.972	-6.784	8.013	1.00	0.00
ATOM	373	HA	LEU	22	4.329	-9.171	8.831	1.00	0.00
ATOM	374	1HB	LEU	22	2.401	-10.106	7.219	1.00	0.00
ATOM	375	2HB	LEU	22	1.751	-8.504	7.509	1.00	0.00
ATOM	376	HG	LEU	22	2.348	-10.613	9.590	1.00	0.00
ATOM	377	1HD1	LEU	22	2.023	-9.129	11.259	1.00	0.00
ATOM	378	2HD1	LEU	22	0.935	-8.122	10.303	1.00	0.00
ATOM	379	3HD1	LEU	22	2.679	-8.007	10.067	1.00	0.00
ATOM	380	1HD2	LEU	22	-0.148	-9.491	8.370	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.158	-10.248	9.963	1.00	0.00
ATOM	382	3HD2	LEU	22	0.340	-11.176	8.548	1.00	0.00
ATOM	383	N	ARG	23	4.224	-8.326	5.654	1.00	0.00
ATOM	384	CA	ARG	23	4.855	-8.513	4.355	1.00	0.00
ATOM	392	C	ARG	23	6.337	-8.149	4.406	1.00	0.00
ATOM	393	O	ARG	23	7.114	-8.543	3.536	1.00	0.00
ATOM	385	CB	ARG	23	4.123	-7.669	3.302	1.00	0.00
ATOM	386	CG	ARG	23	4.495	-7.986	1.865	1.00	0.00
ATOM	387	CD	ARG	23	3.833	-7.006	0.907	1.00	0.00
ATOM	388	NE	ARG	23	4.748	-5.945	0.480	1.00	0.00
ATOM	389	CZ	ARG	23	4.981	-5.619	-0.799	1.00	0.00
ATOM	390	NH1	ARG	23	4.365	-6.272	-1.779	1.00	0.00
ATOM	391	NH2	ARG	23	5.825	-4.635	-1.092	1.00	0.00
ATOM	394	H	ARG	23	3.513	-7.650	5.744	1.00	0.00
ATOM	395	HA	ARG	23	4.766	-9.557	4.096	1.00	0.00
ATOM	396	1HB	ARG	23	4.337	-6.626	3.480	1.00	0.00
ATOM	397	2HB	ARG	23	3.061	-7.827	3.412	1.00	0.00
ATOM	398	1HG	ARG	23	4.168	-8.987	1.628	1.00	0.00
ATOM	399	2HG	ARG	23	5.568	-7.917	1.754	1.00	0.00
ATOM	400	1HD	ARG	23	2.977	-6.555	1.407	1.00	0.00
ATOM	401	2HD	ARG	23	3.495	-7.549	0.037	1.00	0.00
ATOM	402	HE	ARG	23	5.211	-5.441	1.187	1.00	0.00
ATOM	403	1HH1	ARG	23	3.726	-7.010	-1.571	1.00	0.00
ATOM	404	2HH1	ARG	23	4.534	-6.024	-2.738	1.00	0.00
ATOM	405	1HH2	ARG	23	6.290	-4.132	-0.358	1.00	0.00
ATOM	406	2HH2	ARG	23	6.000	-4.387	-2.048	1.00	0.00
ATOM	407	N	GLN	24	6.720	-7.397	5.426	1.00	0.00
ATOM	408	CA	GLN	24	8.102	-6.985	5.591	1.00	0.00
ATOM	414	C	GLN	24	8.924	-8.056	6.306	1.00	0.00
ATOM	415	O	GLN	24	10.154	-7.984	6.320	1.00	0.00
ATOM	409	CB	GLN	24	8.171	-5.682	6.385	1.00	0.00
ATOM	410	CG	GLN	24	8.822	-4.539	5.628	1.00	0.00
ATOM	411	CD	GLN	24	9.501	-3.546	6.550	1.00	0.00
ATOM	412	OE1	GLN	24	9.885	-3.878	7.672	1.00	0.00
ATOM	413	NE2	GLN	24	9.654	-2.315	6.085	1.00	0.00
ATOM	416	H	GLN	24	6.051	-7.105	6.088	1.00	0.00
ATOM	417	HA	GLN	24	8.521	-6.819	4.610	1.00	0.00
ATOM	418	1HB	GLN	24	8.736	-5.854	7.290	1.00	0.00
ATOM	419	2HB	GLN	24	7.167	-5.384	6.651	1.00	0.00
ATOM	420	1HG	GLN	24	8.061	-4.022	5.061	1.00	0.00
ATOM	421	2HG	GLN	24	9.561	-4.946	4.953	1.00	0.00
ATOM	422	1HE2	GLN	24	9.324	-2.114	5.183	1.00	0.00
ATOM	423	2HE2	GLN	24	10.094	-1.653	6.662	1.00	0.00
ATOM	424	N	LYS	25	8.263	-9.035	6.923	1.00	0.00
ATOM	425	CA	LYS	25	9.004	-10.068	7.647	1.00	0.00
ATOM	431	C	LYS	25	8.352	-11.453	7.601	1.00	0.00
ATOM	432	O	LYS	25	9.009	-12.437	7.271	1.00	0.00



ATOM	426	CB	LYS	25	9.180	-9.641	9.106	1.00	0.00
ATOM	427	CG	LYS	25	10.203	-10.466	9.867	1.00	0.00
ATOM	428	CD	LYS	25	10.601	-9.791	11.169	1.00	0.00
ATOM	429	CE	LYS	25	11.922	-10.327	11.694	1.00	0.00
ATOM	430	NZ	LYS	25	13.006	-10.224	10.681	1.00	0.00
ATOM	433	H	LYS	25	7.274	-9.047	6.909	1.00	0.00
ATOM	434	HA	LYS	25	9.982	-10.138	7.197	1.00	0.00
ATOM	435	1HB	LYS	25	8.230	-9.730	9.610	1.00	0.00
ATOM	436	2HB	LYS	25	9.494	-8.608	9.130	1.00	0.00
ATOM	437	1HG	LYS	25	11.083	-10.590	9.252	1.00	0.00
ATOM	438	2HG	LYS	25	9.779	-11.434	10.090	1.00	0.00
ATOM	439	1HD	LYS	25	9.831	-9.971	11.906	1.00	0.00
ATOM	440	2HD	LYS	25	10.697	-8.731	10.997	1.00	0.00
ATOM	441	1HE	LYS	25	11.791	-11.365	11.966	1.00	0.00
ATOM	442	2HE	LYS	25	12.204	-9.760	12.568	1.00	0.00
ATOM	443	1HZ	LYS	25	12.975	-9.293	10.211	1.00	0.00
ATOM	444	2HZ	LYS	25	12.896	-10.969	9.957	1.00	0.00
ATOM	445	3HZ	LYS	25	13.937	-10.341	11.135	1.00	0.00
ATOM	446	N	GLY	26	7.082	-11.535	7.965	1.00	0.00
ATOM	447	CA	GLY	26	6.400	-12.819	7.990	1.00	0.00
ATOM	448	C	GLY	26	5.726	-13.176	6.684	1.00	0.00
ATOM	449	O	GLY	26	6.142	-14.100	5.988	1.00	0.00
ATOM	450	H	GLY	26	6.605	-10.722	8.237	1.00	0.00
ATOM	451	1HA	GLY	26	5.653	-12.793	8.770	1.00	0.00
ATOM	452	2HA	GLY	26	7.117	-13.586	8.227	1.00	0.00
ATOM	453	N	TYR	27	4.678	-12.444	6.355	1.00	0.00
ATOM	454	CA	TYR	27	3.922	-12.674	5.133	1.00	0.00
ATOM	463	C	TYR	27	4.603	-11.997	3.947	1.00	0.00
ATOM	464	O	TYR	27	3.988	-11.222	3.214	1.00	0.00
ATOM	455	CB	TYR	27	2.486	-12.162	5.308	1.00	0.00
ATOM	456	CG	TYR	27	1.463	-12.876	4.446	1.00	0.00
ATOM	457	CD1	TYR	27	1.540	-14.248	4.227	1.00	0.00
ATOM	458	CD2	TYR	27	0.413	-12.178	3.860	1.00	0.00
ATOM	459	CE1	TYR	27	0.603	-14.901	3.449	1.00	0.00
ATOM	460	CE2	TYR	27	-0.529	-12.826	3.081	1.00	0.00
ATOM	461	CZ	TYR	27	-0.430	-14.188	2.878	1.00	0.00
ATOM	462	OH	TYR	27	-1.367	-14.838	2.104	1.00	0.00
ATOM	465	H	TYR	27	4.406	-11.720	6.952	1.00	0.00
ATOM	466	HA	TYR	27	3.895	-13.740	4.957	1.00	0.00
ATOM	467	1HB	TYR	27	2.454	-11.109	5.067	1.00	0.00
ATOM	468	2HB	TYR	27	2.194	-12.293	6.339	1.00	0.00
ATOM	469	HD1	TYR	27	0.338	-11.112	4.019	1.00	0.00
ATOM	470	HD2	TYR	27	2.349	-14.805	4.677	1.00	0.00
ATOM	471	HE1	TYR	27	-1.337	-12.266	2.634	1.00	0.00
ATOM	472	HE2	TYR	27	0.682	-15.966	3.291	1.00	0.00
ATOM	473	HH	TYR	27	-1.691	-15.622	2.578	1.00	0.00
ATOM	474	N	VAL	28	5.883	-12.300	3.775	1.00	0.00
ATOM	475	CA	VAL	28	6.672	-11.729	2.694	1.00	0.00
ATOM	479	C	VAL	28	6.380	-12.446	1.378	1.00	0.00
ATOM	480	O	VAL	28	6.430	-11.843	0.303	1.00	0.00
ATOM	476	CB	VAL	28	8.187	-11.782	3.015	1.00	0.00
ATOM	477	CG1	VAL	28	8.670	-13.218	3.176	1.00	0.00
ATOM	478	CG2	VAL	28	8.997	-11.059	1.949	1.00	0.00
ATOM	481	H	VAL	28	6.313	-12.925	4.402	1.00	0.00
ATOM	482	HA	VAL	28	6.385	-10.693	2.592	1.00	0.00
ATOM	483	HB	VAL	28	8.345	-11.274	3.956	1.00	0.00
ATOM	484	1HG1	VAL	28	9.517	-13.240	3.844	1.00	0.00
ATOM	485	2HG1	VAL	28	8.960	-13.610	2.211	1.00	0.00
ATOM	486	3HG1	VAL	28	7.873	-13.822	3.584	1.00	0.00
ATOM	487	1HG2	VAL	28	8.412	-10.986	1.044	1.00	0.00
ATOM	488	2HG2	VAL	28	9.904	-11.609	1.749	1.00	0.00
ATOM	489	3HG2	VAL	28	9.246	-10.067	2.297	1.00	0.00
ATOM	490	N	CYS	29	6.044	-13.727	1.471	1.00	0.00
ATOM	491	CA	CYS	29	5.717	-14.514	0.293	1.00	0.00
ATOM	494	C	CYS	29	4.400	-14.022	-0.288	1.00	0.00
ATOM	495	O	CYS	29	4.258	-13.855	-1.500	1.00	0.00
ATOM	492	CB	CYS	29	5.619	-15.997	0.652	1.00	0.00
ATOM	493	SG	CYS	29	5.451	-16.321	2.422	1.00	0.00
ATOM	496	H	CYS	29	5.997	-14.145	2.354	1.00	0.00
ATOM	497	HA	CYS	29	6.501	-14.372	-0.435	1.00	0.00
ATOM	498	1HB	CYS	29	6.509	-16.500	0.308	1.00	0.00
ATOM	499	2HB	CYS	29	4.759	-16.423	0.157	1.00	0.00
ATOM	500	HG	CYS	29	5.166	-17.612	2.569	1.00	0.00



ATOM	501	N	GLY	30	3.452	-13.761	0.601	1.00	0.00
ATOM	502	CA	GLY	30	2.158	-13.260	0.196	1.00	0.00
ATOM	503	C	GLY	30	2.159	-11.755	0.047	1.00	0.00
ATOM	504	O	GLY	30	1.407	-11.048	0.720	1.00	0.00
ATOM	505	H	GLY	30	3.644	-13.893	1.552	1.00	0.00
ATOM	506	1HA	GLY	30	1.428	-13.535	0.936	1.00	0.00
ATOM	507	2HA	GLY	30	1.886	-13.708	-0.750	1.00	0.00
ATOM	508	N	ALA	31	3.018	-11.270	-0.833	1.00	0.00
ATOM	509	CA	ALA	31	3.145	-9.844	-1.094	1.00	0.00
ATOM	511	C	ALA	31	1.847	-9.285	-1.669	1.00	0.00
ATOM	512	O	ALA	31	1.404	-9.703	-2.741	1.00	0.00
ATOM	510	CB	ALA	31	4.304	-9.591	-2.048	1.00	0.00
ATOM	513	H	ALA	31	3.590	-11.899	-1.321	1.00	0.00
ATOM	514	HA	ALA	31	3.360	-9.348	-0.157	1.00	0.00
ATOM	515	1HB	ALA	31	4.585	-10.518	-2.525	1.00	0.00
ATOM	516	2HB	ALA	31	5.147	-9.201	-1.496	1.00	0.00
ATOM	517	3HB	ALA	31	4.002	-8.877	-2.799	1.00	0.00
ATOM	518	N	GLY	32	1.231	-8.353	-0.948	1.00	0.00
ATOM	519	CA	GLY	32	-0.020	-7.781	-1.408	1.00	0.00
ATOM	520	C	GLY	32	-0.648	-6.809	-0.421	1.00	0.00
ATOM	521	O	GLY	32	-1.025	-5.707	-0.806	1.00	0.00
ATOM	522	H	GLY	32	1.616	-8.061	-0.096	1.00	0.00
ATOM	523	1HA	GLY	32	-0.719	-8.584	-1.595	1.00	0.00
ATOM	524	2HA	GLY	32	0.163	-7.261	-2.337	1.00	0.00
ATOM	525	N	PRO	33	-0.787	-7.172	0.871	1.00	0.00
ATOM	526	CA	PRO	33	-1.393	-6.282	1.864	1.00	0.00
ATOM	530	C	PRO	33	-0.525	-5.059	2.122	1.00	0.00
ATOM	531	O	PRO	33	-0.993	-3.926	2.078	1.00	0.00
ATOM	527	CB	PRO	33	-1.498	-7.154	3.126	1.00	0.00
ATOM	528	CG	PRO	33	-1.308	-8.555	2.650	1.00	0.00
ATOM	529	CD	PRO	33	-0.387	-8.452	1.473	1.00	0.00
ATOM	532	HA	PRO	33	-2.378	-5.963	1.557	1.00	0.00
ATOM	533	1HB	PRO	33	-2.466	-7.020	3.578	1.00	0.00
ATOM	534	2HB	PRO	33	-0.725	-6.869	3.825	1.00	0.00
ATOM	535	1HG	PRO	33	-2.256	-8.976	2.350	1.00	0.00
ATOM	536	2HG	PRO	33	-0.858	-9.152	3.430	1.00	0.00
ATOM	537	1HD	PRO	33	-0.539	-9.267	0.788	1.00	0.00
ATOM	538	2HD	PRO	33	0.642	-8.420	1.801	1.00	0.00
ATOM	539	N	GLY	34	0.751	-5.305	2.379	1.00	0.00
ATOM	540	CA	GLY	34	1.680	-4.226	2.637	1.00	0.00
ATOM	541	C	GLY	34	2.401	-3.763	1.393	1.00	0.00
ATOM	542	O	GLY	34	3.569	-3.379	1.456	1.00	0.00
ATOM	543	H	GLY	34	1.063	-6.229	2.396	1.00	0.00
ATOM	544	1HA	GLY	34	2.410	-4.567	3.355	1.00	0.00
ATOM	545	2HA	GLY	34	1.141	-3.393	3.061	1.00	0.00
ATOM	546	N	GLU	35	1.721	-3.806	0.257	1.00	0.00
ATOM	547	CA	GLU	35	2.329	-3.379	-0.994	1.00	0.00
ATOM	553	C	GLU	35	2.112	-1.883	-1.209	1.00	0.00
ATOM	554	O	GLU	35	2.753	-1.262	-2.058	1.00	0.00
ATOM	548	CB	GLU	35	1.776	-4.183	-2.173	1.00	0.00
ATOM	549	CG	GLU	35	0.409	-3.730	-2.661	1.00	0.00
ATOM	550	CD	GLU	35	-0.075	-4.543	-3.844	1.00	0.00
ATOM	551	OE1	GLU	35	0.192	-5.764	-3.880	1.00	0.00
ATOM	552	OE2	GLU	35	-0.705	-3.961	-4.752	1.00	0.00
ATOM	555	H	GLU	35	0.795	-4.134	0.258	1.00	0.00
ATOM	556	HA	GLU	35	3.391	-3.564	-0.914	1.00	0.00
ATOM	557	1HB	GLU	35	1.702	-5.220	-1.879	1.00	0.00
ATOM	558	2HB	GLU	35	2.468	-4.105	-2.998	1.00	0.00
ATOM	559	1HG	GLU	35	0.469	-2.692	-2.954	1.00	0.00
ATOM	560	2HG	GLU	35	-0.303	-3.836	-1.855	1.00	0.00
ATOM	561	N	GLY	36	1.211	-1.311	-0.418	1.00	0.00
ATOM	562	CA	GLY	36	0.925	0.104	-0.516	1.00	0.00
ATOM	563	C	GLY	36	1.816	0.923	0.393	1.00	0.00
ATOM	564	O	GLY	36	2.167	0.475	1.484	1.00	0.00
ATOM	565	H	GLY	36	0.745	-1.855	0.250	1.00	0.00
ATOM	566	1HA	GLY	36	-0.106	0.274	-0.243	1.00	0.00
ATOM	567	2HA	GLY	36	1.076	0.423	-1.535	1.00	0.00
ATOM	568	N	PRO	37	2.221	2.125	-0.035	1.00	0.00
ATOM	569	CA	PRO	37	3.088	2.988	0.747	1.00	0.00
ATOM	573	C	PRO	37	2.319	3.985	1.615	1.00	0.00
ATOM	574	O	PRO	37	1.085	3.983	1.663	1.00	0.00
ATOM	570	CB	PRO	37	3.867	3.719	-0.343	1.00	0.00
ATOM	571	CG	PRO	37	2.908	3.838	-1.487	1.00	0.00



ATOM	572	CD	PRO	37	1.885	2.733	-1.332	1.00	0.00
ATOM	575	HA	PRO	37	3.770	2.419	1.364	1.00	0.00
ATOM	576	1HB	PRO	37	4.735	3.140	-0.617	1.00	0.00
ATOM	577	2HB	PRO	37	4.172	4.688	0.021	1.00	0.00
ATOM	578	1HG	PRO	37	3.439	3.725	-2.420	1.00	0.00
ATOM	579	2HG	PRO	37	2.420	4.801	-1.451	1.00	0.00
ATOM	580	1HD	PRO	37	1.984	2.013	-2.131	1.00	0.00
ATOM	581	2HD	PRO	37	0.886	3.142	-1.316	1.00	0.00
ATOM	582	N	ALA	38	3.061	4.851	2.284	1.00	0.00
ATOM	583	CA	ALA	38	2.482	5.874	3.139	1.00	0.00
ATOM	585	C	ALA	38	2.053	7.074	2.302	1.00	0.00
ATOM	586	O	ALA	38	2.778	8.059	2.198	1.00	0.00
ATOM	584	CB	ALA	38	3.497	6.283	4.194	1.00	0.00
ATOM	587	H	ALA	38	4.034	4.809	2.189	1.00	0.00
ATOM	588	HA	ALA	38	1.615	5.460	3.639	1.00	0.00
ATOM	589	1HB	ALA	38	4.402	5.709	4.065	1.00	0.00
ATOM	590	2HB	ALA	38	3.089	6.098	5.176	1.00	0.00
ATOM	591	3HB	ALA	38	3.718	7.336	4.089	1.00	0.00
ATOM	592	N	ALA	39	0.887	6.974	1.679	1.00	0.00
ATOM	593	CA	ALA	39	0.395	8.049	0.823	1.00	0.00
ATOM	595	C	ALA	39	-0.976	8.547	1.265	1.00	0.00
ATOM	596	O	ALA	39	-1.462	9.569	0.786	1.00	0.00
ATOM	594	CB	ALA	39	0.337	7.569	-0.620	1.00	0.00
ATOM	597	H	ALA	39	0.355	6.151	1.777	1.00	0.00
ATOM	598	HA	ALA	39	1.098	8.867	0.875	1.00	0.00
ATOM	599	1HB	ALA	39	1.325	7.606	-1.052	1.00	0.00
ATOM	600	2HB	ALA	39	-0.329	8.206	-1.186	1.00	0.00
ATOM	601	3HB	ALA	39	-0.029	6.552	-0.645	1.00	0.00
ATOM	602	N	ASP	40	-1.600	7.807	2.162	1.00	0.00
ATOM	603	CA	ASP	40	-2.922	8.149	2.654	1.00	0.00
ATOM	608	C	ASP	40	-2.832	9.114	3.825	1.00	0.00
ATOM	609	O	ASP	40	-1.794	9.204	4.488	1.00	0.00
ATOM	604	CB	ASP	40	-3.661	6.883	3.090	1.00	0.00
ATOM	605	CG	ASP	40	-3.783	5.864	1.979	1.00	0.00
ATOM	606	OD1	ASP	40	-2.738	5.340	1.538	1.00	0.00
ATOM	607	OD2	ASP	40	-4.913	5.572	1.556	1.00	0.00
ATOM	610	H	ASP	40	-1.174	7.000	2.487	1.00	0.00
ATOM	611	HA	ASP	40	-3.469	8.618	1.851	1.00	0.00
ATOM	612	1HB	ASP	40	-4.651	7.153	3.420	1.00	0.00
ATOM	613	2HB	ASP	40	-3.127	6.428	3.911	1.00	0.00
ATOM	614	N	PRO	41	-3.932	9.822	4.117	1.00	0.00
ATOM	615	CA	PRO	41	-4.003	10.772	5.225	1.00	0.00
ATOM	619	C	PRO	41	-4.179	10.057	6.562	1.00	0.00
ATOM	620	O	PRO	41	-5.055	10.390	7.360	1.00	0.00
ATOM	616	CB	PRO	41	-5.220	11.637	4.890	1.00	0.00
ATOM	617	CG	PRO	41	-6.058	10.836	3.943	1.00	0.00
ATOM	618	CD	PRO	41	-5.206	9.719	3.391	1.00	0.00
ATOM	621	HA	PRO	41	-3.118	11.390	5.268	1.00	0.00
ATOM	622	1HB	PRO	41	-4.888	12.558	4.435	1.00	0.00
ATOM	623	2HB	PRO	41	-5.762	11.859	5.798	1.00	0.00
ATOM	624	1HG	PRO	41	-6.401	11.472	3.140	1.00	0.00
ATOM	625	2HG	PRO	41	-6.904	10.424	4.472	1.00	0.00
ATOM	626	1HD	PRO	41	-5.047	9.845	2.330	1.00	0.00
ATOM	627	2HD	PRO	41	-5.671	8.765	3.584	1.00	0.00
ATOM	628	N	LEU	42	-3.315	9.071	6.775	1.00	0.00
ATOM	629	CA	LEU	42	-3.293	8.257	7.986	1.00	0.00
ATOM	634	C	LEU	42	-2.179	7.227	7.864	1.00	0.00
ATOM	635	O	LEU	42	-1.572	6.826	8.853	1.00	0.00
ATOM	630	CB	LEU	42	-4.637	7.546	8.237	1.00	0.00
ATOM	631	CG	LEU	42	-5.477	7.232	6.991	1.00	0.00
ATOM	632	CD1	LEU	42	-5.234	5.810	6.514	1.00	0.00
ATOM	633	CD2	LEU	42	-6.955	7.448	7.280	1.00	0.00
ATOM	636	H	LEU	42	-2.649	8.890	6.080	1.00	0.00
ATOM	637	HA	LEU	42	-3.069	8.915	8.816	1.00	0.00
ATOM	638	1HB	LEU	42	-5.228	8.167	8.893	1.00	0.00
ATOM	639	2HB	LEU	42	-4.431	6.615	8.744	1.00	0.00
ATOM	640	HG	LEU	42	-5.190	7.904	6.195	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.895	5.589	5.689	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.424	5.120	7.323	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.208	5.709	6.189	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.531	6.657	6.825	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.267	8.399	6.874	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.119	7.443	8.348	1.00	0.00



ATOM	647	N	HIS	43	-1.920	6.813	6.626	1.00	0.00
ATOM	648	CA	HIS	43	-0.876	5.833	6.329	1.00	0.00
ATOM	655	C	HIS	43	0.481	6.332	6.809	1.00	0.00
ATOM	656	O	HIS	43	1.119	5.712	7.658	1.00	0.00
ATOM	649	CB	HIS	43	-0.803	5.589	4.822	1.00	0.00
ATOM	650	CG	HIS	43	-1.540	4.379	4.327	1.00	0.00
ATOM	651	ND1	HIS	43	-1.122	3.639	3.243	1.00	0.00
ATOM	652	CD2	HIS	43	-2.712	3.828	4.722	1.00	0.00
ATOM	653	CE1	HIS	43	-2.004	2.696	2.988	1.00	0.00
ATOM	654	NE2	HIS	43	-2.982	2.783	3.872	1.00	0.00
ATOM	657	H	HIS	43	-2.447	7.181	5.889	1.00	0.00
ATOM	658	HA	HIS	43	-1.116	4.912	6.839	1.00	0.00
ATOM	659	1HB	HIS	43	0.230	5.490	4.541	1.00	0.00
ATOM	660	2HB	HIS	43	-1.218	6.447	4.315	1.00	0.00
ATOM	661	HD1	HIS	43	-0.289	3.772	2.736	1.00	0.00
ATOM	662	HD2	HIS	43	-3.327	4.158	5.545	1.00	0.00
ATOM	663	HE1	HIS	43	-1.943	1.979	2.183	1.00	0.00
ATOM	664	HE2	HIS	43	-3.624	2.068	4.055	1.00	0.00
ATOM	665	N	GLN	44	0.911	7.463	6.249	1.00	0.00
ATOM	666	CA	GLN	44	2.197	8.066	6.608	1.00	0.00
ATOM	672	C	GLN	44	2.253	8.388	8.093	1.00	0.00
ATOM	673	O	GLN	44	3.328	8.455	8.685	1.00	0.00
ATOM	667	CB	GLN	44	2.458	9.345	5.797	1.00	0.00
ATOM	668	CG	GLN	44	1.410	9.644	4.736	1.00	0.00
ATOM	669	CD	GLN	44	1.309	11.123	4.414	1.00	0.00
ATOM	670	OE1	GLN	44	1.021	11.940	5.285	1.00	0.00
ATOM	671	NE2	GLN	44	1.549	11.475	3.161	1.00	0.00
ATOM	674	H	GLN	44	0.352	7.900	5.572	1.00	0.00
ATOM	675	HA	GLN	44	2.970	7.347	6.382	1.00	0.00
ATOM	676	1HB	GLN	44	3.416	9.255	5.306	1.00	0.00
ATOM	677	2HB	GLN	44	2.493	10.184	6.476	1.00	0.00
ATOM	678	1HG	GLN	44	0.448	9.301	5.090	1.00	0.00
ATOM	679	2HG	GLN	44	1.669	9.114	3.833	1.00	0.00
ATOM	680	1HE2	GLN	44	1.780	10.773	2.516	1.00	0.00
ATOM	681	2HE2	GLN	44	1.483	12.426	2.929	1.00	0.00
ATOM	682	N	ALA	45	1.086	8.580	8.688	1.00	0.00
ATOM	683	CA	ALA	45	0.998	8.898	10.101	1.00	0.00
ATOM	685	C	ALA	45	1.261	7.674	10.969	1.00	0.00
ATOM	686	O	ALA	45	2.066	7.723	11.899	1.00	0.00
ATOM	684	CB	ALA	45	-0.367	9.480	10.417	1.00	0.00
ATOM	687	H	ALA	45	0.261	8.504	8.160	1.00	0.00
ATOM	688	HA	ALA	45	1.742	9.649	10.321	1.00	0.00
ATOM	689	1HB	ALA	45	-0.735	9.054	11.339	1.00	0.00
ATOM	690	2HB	ALA	45	-1.053	9.248	9.615	1.00	0.00
ATOM	691	3HB	ALA	45	-0.288	10.552	10.523	1.00	0.00
ATOM	692	N	MET	46	0.574	6.577	10.672	1.00	0.00
ATOM	693	CA	MET	46	0.729	5.355	11.451	1.00	0.00
ATOM	698	C	MET	46	2.113	4.747	11.281	1.00	0.00
ATOM	699	O	MET	46	2.715	4.279	12.248	1.00	0.00
ATOM	694	CB	MET	46	-0.331	4.334	11.053	1.00	0.00
ATOM	695	CG	MET	46	-0.776	3.459	12.208	1.00	0.00
ATOM	696	SD	MET	46	-2.321	2.611	11.873	1.00	0.00
ATOM	697	CE	MET	46	-3.461	3.725	12.673	1.00	0.00
ATOM	700	H	MET	46	-0.066	6.592	9.918	1.00	0.00
ATOM	701	HA	MET	46	0.592	5.610	12.491	1.00	0.00
ATOM	702	1HB	MET	46	0.071	3.696	10.280	1.00	0.00
ATOM	703	2HB	MET	46	-1.194	4.857	10.668	1.00	0.00
ATOM	704	1HG	MET	46	-0.907	4.081	13.083	1.00	0.00
ATOM	705	2HG	MET	46	-0.017	2.724	12.404	1.00	0.00
ATOM	706	1HE	MET	46	-3.768	3.306	13.620	1.00	0.00
ATOM	707	2HE	MET	46	-4.327	3.867	12.044	1.00	0.00
ATOM	708	3HE	MET	46	-2.978	4.677	12.841	1.00	0.00
ATOM	709	N	ARG	47	2.603	4.744	10.051	1.00	0.00
ATOM	710	CA	ARG	47	3.909	4.172	9.748	1.00	0.00
ATOM	718	C	ARG	47	5.035	4.885	10.495	1.00	0.00
ATOM	719	O	ARG	47	6.025	4.260	10.879	1.00	0.00
ATOM	711	CB	ARG	47	4.168	4.216	8.241	1.00	0.00
ATOM	712	CG	ARG	47	4.517	2.860	7.648	1.00	0.00
ATOM	713	CD	ARG	47	5.114	2.992	6.255	1.00	0.00
ATOM	714	NE	ARG	47	6.289	3.865	6.240	1.00	0.00
ATOM	715	CZ	ARG	47	7.118	3.991	5.203	1.00	0.00
ATOM	716	NH1	ARG	47	6.939	3.262	4.104	1.00	0.00
ATOM	717	NH2	ARG	47	8.135	4.839	5.271	1.00	0.00



ATOM	720	H	ARG	47	2.066	5.122	9.319	1.00	0.00
ATOM	721	HA	ARG	47	3.892	3.141	10.063	1.00	0.00
ATOM	722	1HB	ARG	47	4.988	4.892	8.046	1.00	0.00
ATOM	723	2HB	ARG	47	3.283	4.585	7.746	1.00	0.00
ATOM	724	1HG	ARG	47	3.620	2.262	7.591	1.00	0.00
ATOM	725	2HG	ARG	47	5.235	2.371	8.291	1.00	0.00
ATOM	726	1HD	ARG	47	4.364	3.403	5.596	1.00	0.00
ATOM	727	2HD	ARG	47	5.402	2.012	5.906	1.00	0.00
ATOM	728	HE	ARG	47	6.467	4.401	7.057	1.00	0.00
ATOM	729	1HH1	ARG	47	6.180	2.614	4.047	1.00	0.00
ATOM	730	2HH1	ARG	47	7.570	3.356	3.325	1.00	0.00
ATOM	731	1HH2	ARG	47	8.283	5.389	6.102	1.00	0.00
ATOM	732	2HH2	ARG	47	8.768	4.937	4.491	1.00	0.00
ATOM	733	N	ALA	48	4.886	6.187	10.714	1.00	0.00
ATOM	734	CA	ALA	48	5.909	6.946	11.420	1.00	0.00
ATOM	736	C	ALA	48	5.770	6.750	12.915	1.00	0.00
ATOM	737	O	ALA	48	6.764	6.594	13.626	1.00	0.00
ATOM	735	CB	ALA	48	5.829	8.420	11.063	1.00	0.00
ATOM	738	H	ALA	48	4.071	6.642	10.405	1.00	0.00
ATOM	739	HA	ALA	48	6.877	6.569	11.107	1.00	0.00
ATOM	740	1HB	ALA	48	5.549	8.988	11.939	1.00	0.00
ATOM	741	2HB	ALA	48	5.091	8.564	10.290	1.00	0.00
ATOM	742	3HB	ALA	48	6.793	8.757	10.709	1.00	0.00
ATOM	743	N	ALA	49	4.528	6.728	13.383	1.00	0.00
ATOM	744	CA	ALA	49	4.255	6.515	14.793	1.00	0.00
ATOM	746	C	ALA	49	4.819	5.170	15.202	1.00	0.00
ATOM	747	O	ALA	49	5.629	5.080	16.127	1.00	0.00
ATOM	745	CB	ALA	49	2.762	6.583	15.063	1.00	0.00
ATOM	748	H	ALA	49	3.777	6.838	12.760	1.00	0.00
ATOM	749	HA	ALA	49	4.746	7.295	15.357	1.00	0.00
ATOM	750	1HB	ALA	49	2.235	6.744	14.133	1.00	0.00
ATOM	751	2HB	ALA	49	2.556	7.397	15.739	1.00	0.00
ATOM	752	3HB	ALA	49	2.435	5.653	15.505	1.00	0.00
ATOM	753	N	GLY	50	4.399	4.133	14.478	1.00	0.00
ATOM	754	CA	GLY	50	4.879	2.790	14.732	1.00	0.00
ATOM	755	C	GLY	50	6.392	2.728	14.799	1.00	0.00
ATOM	756	O	GLY	50	6.935	2.137	15.711	1.00	0.00
ATOM	757	H	GLY	50	3.754	4.287	13.751	1.00	0.00
ATOM	758	1HA	GLY	50	4.536	2.139	13.943	1.00	0.00
ATOM	759	2HA	GLY	50	4.472	2.448	15.673	1.00	0.00
ATOM	760	N	ASP	51	7.065	3.363	13.842	1.00	0.00
ATOM	761	CA	ASP	51	8.530	3.398	13.801	1.00	0.00
ATOM	766	C	ASP	51	9.111	3.968	15.094	1.00	0.00
ATOM	767	O	ASP	51	9.929	3.329	15.762	1.00	0.00
ATOM	762	CB	ASP	51	8.993	4.262	12.623	1.00	0.00
ATOM	763	CG	ASP	51	10.506	4.320	12.501	1.00	0.00
ATOM	764	OD1	ASP	51	11.171	3.295	12.754	1.00	0.00
ATOM	765	OD2	ASP	51	11.032	5.399	12.156	1.00	0.00
ATOM	768	H	ASP	51	6.564	3.831	13.146	1.00	0.00
ATOM	769	HA	ASP	51	8.892	2.391	13.670	1.00	0.00
ATOM	770	1HB	ASP	51	8.627	5.268	12.766	1.00	0.00
ATOM	771	2HB	ASP	51	8.586	3.868	11.705	1.00	0.00
ATOM	772	N	GLU	52	8.682	5.176	15.434	1.00	0.00
ATOM	773	CA	GLU	52	9.145	5.859	16.637	1.00	0.00
ATOM	779	C	GLU	52	8.840	5.039	17.890	1.00	0.00
ATOM	780	O	GLU	52	9.690	4.894	18.776	1.00	0.00
ATOM	774	CB	GLU	52	8.483	7.243	16.716	1.00	0.00
ATOM	775	CG	GLU	52	8.528	7.888	18.093	1.00	0.00
ATOM	776	CD	GLU	52	9.218	9.235	18.082	1.00	0.00
ATOM	777	OE1	GLU	52	8.588	10.233	17.663	1.00	0.00
ATOM	778	OE2	GLU	52	10.391	9.304	18.504	1.00	0.00
ATOM	781	H	GLU	52	8.030	5.629	14.852	1.00	0.00
ATOM	782	HA	GLU	52	10.216	5.983	16.559	1.00	0.00
ATOM	783	1HB	GLU	52	7.448	7.147	16.424	1.00	0.00
ATOM	784	2HB	GLU	52	8.981	7.903	16.021	1.00	0.00
ATOM	785	1HG	GLU	52	9.059	7.232	18.767	1.00	0.00
ATOM	786	2HG	GLU	52	7.516	8.023	18.445	1.00	0.00
ATOM	787	N	PHE	53	7.635	4.499	17.963	1.00	0.00
ATOM	788	CA	PHE	53	7.236	3.703	19.109	1.00	0.00
ATOM	796	C	PHE	53	7.926	2.347	19.117	1.00	0.00
ATOM	797	O	PHE	53	8.259	1.841	20.171	1.00	0.00
ATOM	789	CB	PHE	53	5.725	3.523	19.145	1.00	0.00
ATOM	790	CG	PHE	53	5.071	4.270	20.271	1.00	0.00



ATOM	791	CD1	PHE	53	5.228	5.643	20.393	1.00	0.00
ATOM	792	CD2	PHE	53	4.306	3.600	21.210	1.00	0.00
ATOM	793	CE1	PHE	53	4.633	6.331	21.432	1.00	0.00
ATOM	794	CE2	PHE	53	3.708	4.284	22.250	1.00	0.00
ATOM	795	CZ	PHE	53	3.872	5.651	22.362	1.00	0.00
ATOM	798	H	PHE	53	6.995	4.643	17.226	1.00	0.00
ATOM	799	HA	PHE	53	7.538	4.242	19.995	1.00	0.00
ATOM	800	1HB	PHE	53	5.492	2.474	19.260	1.00	0.00
ATOM	801	2HB	PHE	53	5.303	3.883	18.217	1.00	0.00
ATOM	802	HD1	PHE	53	5.822	6.177	19.666	1.00	0.00
ATOM	803	HD2	PHE	53	4.178	2.533	21.123	1.00	0.00
ATOM	804	HE1	PHE	53	4.761	7.400	21.518	1.00	0.00
ATOM	805	HE2	PHE	53	3.114	3.751	22.976	1.00	0.00
ATOM	806	HZ	PHE	53	3.405	6.187	23.175	1.00	0.00
ATOM	807	N	GLU	54	8.154	1.774	17.946	1.00	0.00
ATOM	808	CA	GLU	54	8.822	0.479	17.835	1.00	0.00
ATOM	814	C	GLU	54	10.245	0.589	18.381	1.00	0.00
ATOM	815	O	GLU	54	10.823	-0.376	18.884	1.00	0.00
ATOM	809	CB	GLU	54	8.820	0.020	16.368	1.00	0.00
ATOM	810	CG	GLU	54	9.655	-1.220	16.088	1.00	0.00
ATOM	811	CD	GLU	54	9.037	-2.105	15.020	1.00	0.00
ATOM	812	OE1	GLU	54	7.798	-2.085	14.864	1.00	0.00
ATOM	813	OE2	GLU	54	9.785	-2.821	14.321	1.00	0.00
ATOM	816	H	GLU	54	7.868	2.234	17.123	1.00	0.00
ATOM	817	HA	GLU	54	8.272	-0.233	18.434	1.00	0.00
ATOM	818	1HB	GLU	54	9.187	0.829	15.747	1.00	0.00
ATOM	819	2HB	GLU	54	7.802	-0.197	16.081	1.00	0.00
ATOM	820	1HG	GLU	54	9.746	-1.792	17.000	1.00	0.00
ATOM	821	2HG	GLU	54	10.636	-0.912	15.756	1.00	0.00
ATOM	822	N	THR	55	10.789	1.791	18.287	1.00	0.00
ATOM	823	CA	THR	55	12.129	2.076	18.768	1.00	0.00
ATOM	827	C	THR	55	12.134	2.372	20.282	1.00	0.00
ATOM	828	O	THR	55	13.114	2.089	20.982	1.00	0.00
ATOM	824	CB	THR	55	12.720	3.274	17.991	1.00	0.00
ATOM	825	OG1	THR	55	12.519	3.079	16.581	1.00	0.00
ATOM	826	CG2	THR	55	14.205	3.439	18.275	1.00	0.00
ATOM	829	H	THR	55	10.265	2.515	17.879	1.00	0.00
ATOM	830	HA	THR	55	12.746	1.210	18.575	1.00	0.00
ATOM	831	HB	THR	55	12.202	4.176	18.295	1.00	0.00
ATOM	832	HG1	THR	55	11.572	3.120	16.378	1.00	0.00
ATOM	833	1HG2	THR	55	14.552	4.370	17.852	1.00	0.00
ATOM	834	2HG2	THR	55	14.750	2.618	17.834	1.00	0.00
ATOM	835	3HG2	THR	55	14.368	3.447	19.343	1.00	0.00
ATOM	836	N	ARG	56	11.040	2.947	20.781	1.00	0.00
ATOM	837	CA	ARG	56	10.927	3.295	22.202	1.00	0.00
ATOM	845	C	ARG	56	10.278	2.170	23.029	1.00	0.00
ATOM	846	O	ARG	56	10.746	1.832	24.115	1.00	0.00
ATOM	838	CB	ARG	56	10.104	4.584	22.357	1.00	0.00
ATOM	839	CG	ARG	56	10.874	5.862	22.037	1.00	0.00
ATOM	840	CD	ARG	56	10.063	7.107	22.389	1.00	0.00
ATOM	841	NE	ARG	56	10.274	8.209	21.444	1.00	0.00
ATOM	842	CZ	ARG	56	10.325	9.497	21.800	1.00	0.00
ATOM	843	NH1	ARG	56	10.273	9.841	23.079	1.00	0.00
ATOM	844	NH2	ARG	56	10.454	10.438	20.876	1.00	0.00
ATOM	847	H	ARG	56	10.294	3.153	20.176	1.00	0.00
ATOM	848	HA	ARG	56	11.923	3.472	22.579	1.00	0.00
ATOM	849	1HB	ARG	56	9.749	4.648	23.374	1.00	0.00
ATOM	850	2HB	ARG	56	9.254	4.532	21.694	1.00	0.00
ATOM	851	1HG	ARG	56	11.104	5.879	20.983	1.00	0.00
ATOM	852	2HG	ARG	56	11.790	5.871	22.608	1.00	0.00
ATOM	853	1HD	ARG	56	10.344	7.441	23.378	1.00	0.00
ATOM	854	2HD	ARG	56	9.016	6.847	22.387	1.00	0.00
ATOM	855	HE	ARG	56	10.358	7.978	20.488	1.00	0.00
ATOM	856	1HH1	ARG	56	10.205	9.138	23.792	1.00	0.00
ATOM	857	2HH1	ARG	56	10.294	10.822	23.344	1.00	0.00
ATOM	858	1HH2	ARG	56	10.513	10.182	19.896	1.00	0.00
ATOM	859	2HH2	ARG	56	10.490	11.403	21.141	1.00	0.00
ATOM	860	N	PHE	57	9.194	1.609	22.512	1.00	0.00
ATOM	861	CA	PHE	57	8.451	0.541	23.179	1.00	0.00
ATOM	869	C	PHE	57	9.057	-0.826	23.869	1.00	0.00
ATOM	870	O	PHE	57	8.644	-1.500	21.925	1.00	0.00
ATOM	862	CB	PHE	57	6.988	0.572	22.723	1.00	0.00
ATOM	863	CG	PHE	57	5.981	0.275	23.801	1.00	0.00



ATOM	864	CD1	PHE	57	6.367	-0.272	25.016	1.00	0.00
ATOM	865	CD2	PHE	57	4.638	0.542	23.589	1.00	0.00
ATOM	866	CE1	PHE	57	5.430	-0.543	25.997	1.00	0.00
ATOM	867	CE2	PHE	57	3.699	0.274	24.564	1.00	0.00
ATOM	868	CZ	PHE	57	4.095	-0.269	25.770	1.00	0.00
ATOM	871	H	PHE	57	8.869	1.927	21.640	1.00	0.00
ATOM	872	HA	PHE	57	8.495	0.714	24.243	1.00	0.00
ATOM	873	1HB	PHE	57	6.854	-0.157	21.937	1.00	0.00
ATOM	874	2HB	PHE	57	6.765	1.553	22.331	1.00	0.00
ATOM	875	HD1	PHE	57	7.410	-0.485	25.194	1.00	0.00
ATOM	876	HD2	PHE	57	4.326	0.967	22.645	1.00	0.00
ATOM	877	HE1	PHE	57	5.743	-0.968	26.939	1.00	0.00
ATOM	878	HE2	PHE	57	2.655	0.487	24.384	1.00	0.00
ATOM	879	HZ	PHE	57	3.359	-0.481	26.533	1.00	0.00
ATOM	880	N	ARG	58	10.034	-1.229	23.664	1.00	0.00
ATOM	881	CA	ARG	58	10.697	-2.516	23.464	1.00	0.00
ATOM	889	C	ARG	58	9.886	-3.668	24.058	1.00	0.00
ATOM	890	O	ARG	58	10.128	-4.836	23.748	1.00	0.00
ATOM	882	CB	ARG	58	12.095	-2.495	24.082	1.00	0.00
ATOM	883	CG	ARG	58	13.140	-1.861	23.184	1.00	0.00
ATOM	884	CD	ARG	58	13.644	-0.552	23.764	1.00	0.00
ATOM	885	NE	ARG	58	14.344	0.254	22.768	1.00	0.00
ATOM	886	CZ	ARG	58	15.667	0.406	22.731	1.00	0.00
ATOM	887	NH1	ARG	58	16.440	-0.224	23.609	1.00	0.00
ATOM	888	NH2	ARG	58	16.217	1.179	21.804	1.00	0.00
ATOM	891	H	ARG	58	10.322	-0.645	24.395	1.00	0.00
ATOM	892	HA	ARG	58	10.791	-2.675	22.400	1.00	0.00
ATOM	893	1HB	ARG	58	12.399	-3.510	24.292	1.00	0.00
ATOM	894	2HB	ARG	58	12.060	-1.939	25.007	1.00	0.00
ATOM	895	1HG	ARG	58	12.702	-1.671	22.215	1.00	0.00
ATOM	896	2HG	ARG	58	13.972	-2.542	23.078	1.00	0.00
ATOM	897	1HD	ARG	58	14.321	-0.770	24.577	1.00	0.00
ATOM	898	2HD	ARG	58	12.801	0.009	24.140	1.00	0.00
ATOM	899	HE	ARG	58	13.793	0.717	22.092	1.00	0.00
ATOM	900	1HH1	ARG	58	16.034	-0.817	24.314	1.00	0.00
ATOM	901	2HH1	ARG	58	17.444	-0.121	23.564	1.00	0.00
ATOM	902	1HH2	ARG	58	15.641	1.645	21.130	1.00	0.00
ATOM	903	2HH2	ARG	58	17.213	1.313	21.786	1.00	0.00
ATOM	904	N	ARG	59	8.923	-3.344	24.909	1.00	0.00
ATOM	905	CA	ARG	59	8.092	-4.366	25.535	1.00	0.00
ATOM	913	C	ARG	59	6.853	-4.652	24.695	1.00	0.00
ATOM	914	O	ARG	59	5.728	-4.440	25.133	1.00	0.00
ATOM	906	CB	ARG	59	7.697	-3.945	26.952	1.00	0.00
ATOM	907	CG	ARG	59	8.662	-4.442	28.020	1.00	0.00
ATOM	908	CD	ARG	59	8.707	-5.964	28.073	1.00	0.00
ATOM	909	NE	ARG	59	9.784	-6.519	27.247	1.00	0.00
ATOM	910	CZ	ARG	59	11.045	-6.652	27.659	1.00	0.00
ATOM	911	NH1	ARG	59	11.385	-6.276	28.885	1.00	0.00
ATOM	912	NH2	ARG	59	11.965	-7.164	26.847	1.00	0.00
ATOM	915	H	ARG	59	8.766	-2.400	25.122	1.00	0.00
ATOM	916	HA	ARG	59	8.679	-5.271	25.593	1.00	0.00
ATOM	917	1HB	ARG	59	6.716	-4.339	27.173	1.00	0.00
ATOM	918	2HB	ARG	59	7.663	-2.867	26.999	1.00	0.00
ATOM	919	1HG	ARG	59	8.344	-4.066	28.981	1.00	0.00
ATOM	920	2HG	ARG	59	9.652	-4.072	27.797	1.00	0.00
ATOM	921	1HD	ARG	59	7.761	-6.350	27.721	1.00	0.00
ATOM	922	2HD	ARG	59	8.858	-6.269	29.097	1.00	0.00
ATOM	923	HE	ARG	59	9.544	-6.815	26.338	1.00	0.00
ATOM	924	1HH1	ARG	59	10.695	-5.893	29.502	1.00	0.00
ATOM	925	2HH1	ARG	59	12.338	-6.377	29.206	1.00	0.00
ATOM	926	1HH2	ARG	59	11.717	-7.454	25.918	1.00	0.00
ATOM	927	2HH2	ARG	59	12.910	-7.267	27.161	1.00	0.00
ATOM	928	N	THR	60	7.082	-5.117	23.478	1.00	0.00
ATOM	929	CA	THR	60	5.999	-5.425	22.560	1.00	0.00
ATOM	933	C	THR	60	6.043	-6.890	22.121	1.00	0.00
ATOM	934	O	THR	60	5.070	-7.630	22.259	1.00	0.00
ATOM	930	CB	THR	60	6.093	-4.527	21.315	1.00	0.00
ATOM	931	OG1	THR	60	7.465	-4.159	21.098	1.00	0.00
ATOM	932	CG2	THR	60	5.247	-3.276	21.485	1.00	0.00
ATOM	935	H	THR	60	8.007	-5.246	23.184	1.00	0.00
ATOM	936	HA	THR	60	5.061	-5.226	23.055	1.00	0.00
ATOM	937	HB	THR	60	5.734	-5.079	20.459	1.00	0.00
ATOM	938	HG1	THR	60	7.554	-3.197	21.159	1.00	0.00



ATOM	939	1HG2	THR	60	5.543	-2.762	22.387	1.00	0.00
ATOM	940	2HG2	THR	60	4.205	-3.553	21.554	1.00	0.00
ATOM	941	3HG2	THR	60	5.391	-2.626	20.636	1.00	0.00
ATOM	942	N	PHE	61	7.187	-7.290	21.571	1.00	0.00
ATOM	943	CA	PHE	61	7.386	-8.652	21.073	1.00	0.00
ATOM	951	C	PHE	61	7.365	-9.692	22.195	1.00	0.00
ATOM	952	O	PHE	61	7.174	-10.881	21.944	1.00	0.00
ATOM	944	CB	PHE	61	8.708	-8.741	20.307	1.00	0.00
ATOM	945	CG	PHE	61	8.645	-8.139	18.929	1.00	0.00
ATOM	946	CD1	PHE	61	8.838	-6.779	18.743	1.00	0.00
ATOM	947	CD2	PHE	61	8.389	-8.933	17.823	1.00	0.00
ATOM	948	CE1	PHE	61	8.775	-6.224	17.478	1.00	0.00
ATOM	949	CE2	PHE	61	8.327	-8.383	16.556	1.00	0.00
ATOM	950	CZ	PHE	61	8.519	-7.026	16.383	1.00	0.00
ATOM	953	H	PHE	61	7.916	-6.640	21.475	1.00	0.00
ATOM	954	HA	PHE	61	6.578	-8.870	20.389	1.00	0.00
ATOM	955	1HB	PHE	61	8.988	-9.779	20.205	1.00	0.00
ATOM	956	2HB	PHE	61	9.473	-8.219	20.862	1.00	0.00
ATOM	957	HD1	PHE	61	9.038	-6.150	19.596	1.00	0.00
ATOM	958	HD2	PHE	61	8.239	-9.995	17.956	1.00	0.00
ATOM	959	HE1	PHE	61	8.925	-5.162	17.347	1.00	0.00
ATOM	960	HE2	PHE	61	8.125	-9.013	15.702	1.00	0.00
ATOM	961	HZ	PHE	61	8.469	-6.594	15.395	1.00	0.00
ATOM	962	N	SER	62	7.564	-9.245	23.423	1.00	0.00
ATOM	963	CA	SER	62	7.571	-10.140	24.572	1.00	0.00
ATOM	966	C	SER	62	6.195	-10.756	24.794	1.00	0.00
ATOM	967	O	SER	62	6.070	-11.955	25.050	1.00	0.00
ATOM	964	CB	SER	62	8.009	-9.361	25.810	1.00	0.00
ATOM	965	OG	SER	62	7.969	-7.964	25.555	1.00	0.00
ATOM	968	H	SER	62	7.713	-8.287	23.568	1.00	0.00
ATOM	969	HA	SER	62	8.277	-10.931	24.378	1.00	0.00
ATOM	970	1HB	SER	62	9.020	-9.638	26.072	1.00	0.00
ATOM	971	2HB	SER	62	7.345	-9.585	26.631	1.00	0.00
ATOM	972	HG	SER	62	7.101	-7.615	25.818	1.00	0.00
ATOM	973	N	ASP	63	5.174	-9.923	24.697	1.00	0.00
ATOM	974	CA	ASP	63	3.795	-10.347	24.892	1.00	0.00
ATOM	979	C	ASP	63	3.354	-11.266	23.774	1.00	0.00
ATOM	980	O	ASP	63	2.489	-12.122	23.959	1.00	0.00
ATOM	975	CB	ASP	63	2.891	-9.121	24.966	1.00	0.00
ATOM	976	CG	ASP	63	3.227	-8.228	26.147	1.00	0.00
ATOM	977	OD1	ASP	63	4.395	-7.777	26.235	1.00	0.00
ATOM	978	OD2	ASP	63	2.334	-7.984	26.986	1.00	0.00
ATOM	981	H	ASP	63	5.350	-8.977	24.500	1.00	0.00
ATOM	982	HA	ASP	63	3.739	-10.891	25.821	1.00	0.00
ATOM	983	1HB	ASP	63	1.868	-9.446	25.059	1.00	0.00
ATOM	984	2HB	ASP	63	3.001	-8.544	24.059	1.00	0.00
ATOM	985	N	LEU	64	3.977	-11.098	22.623	1.00	0.00
ATOM	986	CA	LEU	64	3.686	-11.925	21.462	1.00	0.00
ATOM	991	C	LEU	64	4.058	-13.366	21.781	1.00	0.00
ATOM	992	O	LEU	64	3.333	-14.306	21.454	1.00	0.00
ATOM	987	CB	LEU	64	4.495	-11.455	20.251	1.00	0.00
ATOM	988	CG	LEU	64	3.887	-10.321	19.417	1.00	0.00
ATOM	989	CD1	LEU	64	3.069	-9.363	20.272	1.00	0.00
ATOM	990	CD2	LEU	64	4.994	-9.572	18.697	1.00	0.00
ATOM	993	H	LEU	64	4.665	-10.405	22.557	1.00	0.00
ATOM	994	HA	LEU	64	2.630	-11.861	21.246	1.00	0.00
ATOM	995	1HB	LEU	64	4.645	-12.304	19.602	1.00	0.00
ATOM	996	2HB	LEU	64	5.460	-11.126	20.605	1.00	0.00
ATOM	997	HG	LEU	64	3.232	-10.745	18.669	1.00	0.00
ATOM	998	1HD1	LEU	64	2.338	-8.861	19.655	1.00	0.00
ATOM	999	2HD1	LEU	64	3.725	-8.630	20.719	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.563	-9.915	21.052	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.626	-10.276	18.175	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.584	-9.025	19.418	1.00	0.00
ATOM	1003	3HD2	LEU	64	4.559	-8.883	17.989	1.00	0.00
ATOM	1004	N	ALA	65	5.196	-13.515	22.447	1.00	0.00
ATOM	1005	CA	ALA	65	5.690	-14.822	22.839	1.00	0.00
ATOM	1007	C	ALA	65	4.925	-15.335	24.044	1.00	0.00
ATOM	1008	O	ALA	65	4.512	-16.489	24.075	1.00	0.00
ATOM	1006	CB	ALA	65	7.180	-14.760	23.139	1.00	0.00
ATOM	1009	H	ALA	65	5.711	-12.716	22.691	1.00	0.00
ATOM	1010	HA	ALA	65	5.537	-15.499	22.011	1.00	0.00
ATOM	1011	1HB	ALA	65	7.399	-13.863	23.700	1.00	0.00



ATOM	1012	2HB	ALA	65	7.734	-14.748	22.211	1.00	0.00
ATOM	1013	3HB	ALA	65	7.468	-15.626	23.719	1.00	0.00
ATOM	1014	N	ALA	66	4.733	-14.462	25.030	1.00	0.00
ATOM	1015	CA	ALA	66	4.005	-14.816	26.247	1.00	0.00
ATOM	1017	C	ALA	66	2.646	-15.433	25.921	1.00	0.00
ATOM	1018	O	ALA	66	2.239	-16.426	26.525	1.00	0.00
ATOM	1016	CB	ALA	66	3.830	-13.587	27.121	1.00	0.00
ATOM	1019	H	ALA	66	5.091	-13.546	24.933	1.00	0.00
ATOM	1020	HA	ALA	66	4.593	-15.535	26.796	1.00	0.00
ATOM	1021	1HB	ALA	66	2.790	-13.299	27.132	1.00	0.00
ATOM	1022	2HB	ALA	66	4.425	-12.777	26.727	1.00	0.00
ATOM	1023	3HB	ALA	66	4.151	-13.813	28.128	1.00	0.00
ATOM	1024	N	GLN	67	1.954	-14.837	24.958	1.00	0.00
ATOM	1025	CA	GLN	67	0.640	-15.317	24.547	1.00	0.00
ATOM	1031	C	GLN	67	0.710	-16.657	23.816	1.00	0.00
ATOM	1032	O	GLN	67	0.010	-17.606	24.174	1.00	0.00
ATOM	1026	CB	GLN	67	-0.031	-14.301	23.629	1.00	0.00
ATOM	1027	CG	GLN	67	-0.779	-13.210	24.364	1.00	0.00
ATOM	1028	CD	GLN	67	-1.183	-12.089	23.438	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.343	-11.981	23.045	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.227	-11.252	23.076	1.00	0.00
ATOM	1033	H	GLN	67	2.338	-14.042	24.518	1.00	0.00
ATOM	1034	HA	GLN	67	0.038	-15.436	25.433	1.00	0.00
ATOM	1035	1HB	GLN	67	-0.731	-14.820	22.991	1.00	0.00
ATOM	1036	2HB	GLN	67	0.725	-13.837	23.015	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.143	-12.810	25.139	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.669	-13.634	24.807	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.680	-11.404	23.424	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.461	-10.511	22.479	1.00	0.00
ATOM	1041	N	LEU	68	1.519	-16.718	22.765	1.00	0.00
ATOM	1042	CA	LEU	68	1.630	-17.929	21.955	1.00	0.00
ATOM	1047	C	LEU	68	2.674	-18.910	22.489	1.00	0.00
ATOM	1048	O	LEU	68	3.132	-19.791	21.762	1.00	0.00
ATOM	1043	CB	LEU	68	1.955	-17.561	20.503	1.00	0.00
ATOM	1044	CG	LEU	68	0.772	-17.049	19.666	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.553	-17.562	20.212	1.00	0.00
ATOM	1046	CD2	LEU	68	0.771	-15.528	19.615	1.00	0.00
ATOM	1049	H	LEU	68	2.030	-15.919	22.506	1.00	0.00
ATOM	1050	HA	LEU	68	0.668	-18.419	21.975	1.00	0.00
ATOM	1051	1HB	LEU	68	2.357	-18.436	20.014	1.00	0.00
ATOM	1052	2HB	LEU	68	2.717	-16.796	20.512	1.00	0.00
ATOM	1053	HG	LEU	68	0.874	-17.415	18.654	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.809	-17.013	21.107	1.00	0.00
ATOM	1055	2HD1	LEU	68	-0.463	-18.612	20.448	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.326	-17.423	19.472	1.00	0.00
ATOM	1057	1HD2	LEU	68	0.797	-15.135	20.620	1.00	0.00
ATOM	1058	2HD2	LEU	68	-0.123	-15.186	19.117	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.639	-15.185	19.071	1.00	0.00
ATOM	1060	N	HIS	69	3.046	-18.764	23.750	1.00	0.00
ATOM	1061	CA	HIS	69	4.032	-19.652	24.350	1.00	0.00
ATOM	1068	C	HIS	69	3.395	-20.980	24.724	1.00	0.00
ATOM	1069	O	HIS	69	4.012	-22.036	24.587	1.00	0.00
ATOM	1062	CB	HIS	69	4.642	-19.012	25.601	1.00	0.00
ATOM	1063	CG	HIS	69	6.040	-19.461	25.904	1.00	0.00
ATOM	1064	ND1	HIS	69	7.019	-18.604	26.355	1.00	0.00
ATOM	1065	CD2	HIS	69	6.623	-20.684	25.832	1.00	0.00
ATOM	1066	CE1	HIS	69	8.138	-19.275	26.550	1.00	0.00
ATOM	1067	NE2	HIS	69	7.924	-20.537	26.242	1.00	0.00
ATOM	1070	H	HIS	69	2.659	-18.039	24.285	1.00	0.00
ATOM	1071	HA	HIS	69	4.808	-19.827	23.626	1.00	0.00
ATOM	1072	1HB	HIS	69	4.023	-19.252	26.455	1.00	0.00
ATOM	1073	2HB	HIS	69	4.660	-17.940	25.472	1.00	0.00
ATOM	1074	HD1	HIS	69	6.912	-17.634	26.507	1.00	0.00
ATOM	1075	HD2	HIS	69	6.148	-21.602	25.513	1.00	0.00
ATOM	1076	HE1	HIS	69	9.071	-18.859	26.904	1.00	0.00
ATOM	1077	HE2	HIS	69	8.624	-21.236	26.203	1.00	0.00
ATOM	1078	N	VAL	70	2.170	-20.915	25.215	1.00	0.00
ATOM	1079	CA	VAL	70	1.454	-22.111	25.630	1.00	0.00
ATOM	1083	C	VAL	70	0.596	-22.696	24.496	1.00	0.00
ATOM	1084	O	VAL	70	0.838	-23.815	24.051	1.00	0.00
ATOM	1080	CB	VAL	70	0.603	-21.842	26.900	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.275	-20.606	26.741	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.228	-23.061	27.267	1.00	0.00



ATOM	1085	H	VAL	70	1.743	-20.039	25.309	1.00	0.00
ATOM	1086	HA	VAL	70	2.202	-22.847	25.892	1.00	0.00
ATOM	1087	HB	VAL	70	1.286	-21.652	27.716	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.820	-20.430	27.658	1.00	0.00
ATOM	1089	2HG1	VAL	70	-0.973	-20.761	25.932	1.00	0.00
ATOM	1090	3HG1	VAL	70	0.345	-19.749	26.522	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.265	-22.775	27.359	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.119	-23.464	28.207	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.128	-23.810	26.495	1.00	0.00
ATOM	1094	N	THR	71	-0.402	-21.943	24.031	1.00	0.00
ATOM	1095	CA	THR	71	-1.282	-22.402	22.957	1.00	0.00
ATOM	1099	C	THR	71	-2.035	-21.226	22.334	1.00	0.00
ATOM	1100	O	THR	71	-2.329	-20.239	23.017	1.00	0.00
ATOM	1096	CB	THR	71	-2.318	-23.430	23.472	1.00	0.00
ATOM	1097	OG1	THR	71	-2.310	-23.462	24.904	1.00	0.00
ATOM	1098	CG2	THR	71	-2.029	-24.822	22.927	1.00	0.00
ATOM	1101	H	THR	71	-0.552	-21.054	24.416	1.00	0.00
ATOM	1102	HA	THR	71	-0.674	-22.876	22.200	1.00	0.00
ATOM	1103	HB	THR	71	-3.299	-23.126	23.133	1.00	0.00
ATOM	1104	HG1	THR	71	-1.576	-22.930	25.223	1.00	0.00
ATOM	1105	1HG2	THR	71	-0.974	-24.915	22.718	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.593	-24.978	22.019	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.316	-25.561	23.661	1.00	0.00
ATOM	1108	N	PRO	72	-2.357	-21.313	21.032	1.00	0.00
ATOM	1109	CA	PRO	72	-3.082	-20.262	20.322	1.00	0.00
ATOM	1113	C	PRO	72	-4.599	-20.396	20.482	1.00	0.00
ATOM	1114	O	PRO	72	-5.079	-21.106	21.365	1.00	0.00
ATOM	1110	CB	PRO	72	-2.672	-20.508	18.874	1.00	0.00
ATOM	1111	CG	PRO	72	-2.497	-21.987	18.782	1.00	0.00
ATOM	1112	CD	PRO	72	-2.039	-22.450	20.145	1.00	0.00
ATOM	1115	HA	PRO	72	-2.767	-19.276	20.632	1.00	0.00
ATOM	1116	1HB	PRO	72	-1.749	-19.990	18.664	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.449	-20.158	18.211	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.751	-22.221	18.038	1.00	0.00
ATOM	1119	2HG	PRO	72	-3.439	-22.450	18.527	1.00	0.00
ATOM	1120	1HD	PRO	72	-0.977	-22.646	20.137	1.00	0.00
ATOM	1121	2HD	PRO	72	-2.583	-23.334	20.444	1.00	0.00
ATOM	1122	N	GLY	73	-5.349	-19.720	19.616	1.00	0.00
ATOM	1123	CA	GLY	73	-6.797	-19.791	19.674	1.00	0.00
ATOM	1124	C	GLY	73	-7.396	-18.815	20.667	1.00	0.00
ATOM	1125	O	GLY	73	-7.994	-17.810	20.276	1.00	0.00
ATOM	1126	H	GLY	73	-4.916	-19.175	18.926	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.085	-20.794	19.954	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.195	-19.577	18.693	1.00	0.00
ATOM	1129	N	SER	74	-7.234	-19.109	21.952	1.00	0.00
ATOM	1130	CA	SER	74	-7.760	-18.267	23.024	1.00	0.00
ATOM	1133	C	SER	74	-6.936	-16.988	23.196	1.00	0.00
ATOM	1134	O	SER	74	-6.571	-16.608	24.309	1.00	0.00
ATOM	1131	CB	SER	74	-7.775	-19.070	24.325	1.00	0.00
ATOM	1132	OG	SER	74	-7.215	-20.361	24.121	1.00	0.00
ATOM	1135	H	SER	74	-6.744	-19.927	22.195	1.00	0.00
ATOM	1136	HA	SER	74	-8.773	-17.993	22.769	1.00	0.00
ATOM	1137	1HB	SER	74	-8.793	-19.181	24.667	1.00	0.00
ATOM	1138	2HB	SER	74	-7.196	-18.551	25.074	1.00	0.00
ATOM	1139	HG	SER	74	-7.843	-21.032	24.404	1.00	0.00
ATOM	1140	N	ALA	75	-6.655	-16.324	22.087	1.00	0.00
ATOM	1141	CA	ALA	75	-5.887	-15.093	22.107	1.00	0.00
ATOM	1143	C	ALA	75	-6.811	-13.887	22.142	1.00	0.00
ATOM	1144	O	ALA	75	-6.409	-12.796	22.548	1.00	0.00
ATOM	1142	CB	ALA	75	-4.972	-15.025	20.896	1.00	0.00
ATOM	1145	H	ALA	75	-6.981	-16.675	21.227	1.00	0.00
ATOM	1146	HA	ALA	75	-5.275	-15.094	22.993	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.518	-15.990	20.731	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.201	-14.288	21.067	1.00	0.00
ATOM	1149	3HB	ALA	75	-5.550	-14.745	20.026	1.00	0.00
ATOM	1150	N	GLN	76	-8.049	-14.087	21.702	1.00	0.00
ATOM	1151	CA	GLN	76	-9.029	-13.008	21.662	1.00	0.00
ATOM	1157	C	GLN	76	-9.324	-12.463	23.042	1.00	0.00
ATOM	1158	O	GLN	76	-9.491	-11.260	23.202	1.00	0.00
ATOM	1152	CB	GLN	76	-10.322	-13.451	20.977	1.00	0.00
ATOM	1153	CG	GLN	76	-10.806	-14.829	21.374	1.00	0.00
ATOM	1154	CD	GLN	76	-12.073	-15.216	20.646	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.162	-16.289	20.051	1.00	0.00



ATOM	1156	NE2	GLN	76	-13.061	-14.342	20.687	1.00	0.00
ATOM	1159	H	GLN	76	-8.305	-14.978	21.384	1.00	0.00
ATOM	1160	HA	GLN	76	-8.595	-12.211	21.078	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.164	-13.446	19.909	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.100	-12.741	21.215	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.998	-14.832	22.429	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.036	-15.551	21.142	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.923	-13.505	21.184	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.887	-14.554	20.202	1.00	0.00
ATOM	1167	N	GLN	77	-9.378	-13.335	24.036	1.00	0.00
ATOM	1168	CA	GLN	77	-9.651	-12.894	25.396	1.00	0.00
ATOM	1174	C	GLN	77	-8.516	-12.027	25.918	1.00	0.00
ATOM	1175	O	GLN	77	-8.750	-11.030	26.593	1.00	0.00
ATOM	1169	CB	GLN	77	-9.871	-14.087	26.324	1.00	0.00
ATOM	1170	CG	GLN	77	-11.136	-14.866	26.016	1.00	0.00
ATOM	1171	CD	GLN	77	-10.888	-16.356	25.913	1.00	0.00
ATOM	1172	OE1	GLN	77	-10.284	-16.833	24.952	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.353	-17.101	26.905	1.00	0.00
ATOM	1176	H	GLN	77	-9.231	-14.289	23.854	1.00	0.00
ATOM	1177	HA	GLN	77	-10.549	-12.294	25.368	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.931	-13.729	27.341	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.028	-14.756	26.235	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.540	-14.516	25.078	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.852	-14.689	26.804	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.822	-16.651	27.638	1.00	0.00
ATOM	1183	2HE2	GLN	77	-11.212	-18.074	26.866	1.00	0.00
ATOM	1184	N	ARG	78	-7.288	-12.398	25.587	1.00	0.00
ATOM	1185	CA	ARG	78	-6.130	-11.629	26.020	1.00	0.00
ATOM	1193	C	ARG	78	-6.110	-10.282	25.315	1.00	0.00
ATOM	1194	O	ARG	78	-5.865	-9.246	25.935	1.00	0.00
ATOM	1186	CB	ARG	78	-4.833	-12.389	25.728	1.00	0.00
ATOM	1187	CG	ARG	78	-4.427	-13.362	26.821	1.00	0.00
ATOM	1188	CD	ARG	78	-3.683	-14.558	26.247	1.00	0.00
ATOM	1189	NE	ARG	78	-4.072	-15.808	26.895	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.873	-17.017	26.374	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.261	-17.151	25.199	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.281	-18.089	27.038	1.00	0.00
ATOM	1195	H	ARG	78	-7.159	-13.193	25.034	1.00	0.00
ATOM	1196	HA	ARG	78	-6.217	-11.463	27.083	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.033	-11.674	25.599	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.955	-12.946	24.809	1.00	0.00
ATOM	1199	1HG	ARG	78	-5.315	-13.710	27.329	1.00	0.00
ATOM	1200	2HG	ARG	78	-3.783	-12.854	27.522	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.623	-14.407	26.382	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.904	-14.629	25.191	1.00	0.00
ATOM	1203	HE	ARG	78	-4.516	-15.742	27.778	1.00	0.00
ATOM	1204	1HH1	ARG	78	-2.947	-16.342	24.702	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.111	-18.061	24.806	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.737	-17.980	27.933	1.00	0.00
ATOM	1207	2HH2	ARG	78	-4.145	-19.004	26.660	1.00	0.00
ATOM	1208	N	PHE	79	-6.382	-10.311	24.015	1.00	0.00
ATOM	1209	CA	PHE	79	-6.409	-9.103	23.209	1.00	0.00
ATOM	1217	C	PHE	79	-7.513	-8.163	23.681	1.00	0.00
ATOM	1218	O	PHE	79	-7.271	-6.978	23.901	1.00	0.00
ATOM	1210	CB	PHE	79	-6.606	-9.448	21.732	1.00	0.00
ATOM	1211	CG	PHE	79	-5.982	-8.451	20.799	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.606	-8.299	20.746	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.772	-7.660	19.980	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.029	-7.377	19.893	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.201	-6.737	19.125	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.828	-6.595	19.082	1.00	0.00
ATOM	1219	H	PHE	79	-6.574	-11.174	23.587	1.00	0.00
ATOM	1220	HA	PHE	79	-5.457	-8.608	23.327	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.664	-9.490	21.517	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.163	-10.412	21.531	1.00	0.00
ATOM	1223	HD1	PHE	79	-3.980	-8.911	21.379	1.00	0.00
ATOM	1224	HD2	PHE	79	-7.846	-7.770	20.014	1.00	0.00
ATOM	1225	HE1	PHE	79	-2.955	-7.268	19.861	1.00	0.00
ATOM	1226	HE2	PHE	79	-6.828	-6.127	18.493	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.379	-5.873	18.415	1.00	0.00
ATOM	1228	N	THR	80	-8.727	-8.689	23.831	1.00	0.00
ATOM	1229	CA	THR	80	-9.858	-7.873	24.274	1.00	0.00
ATOM	1233	C	THR	80	-9.591	-7.212	25.628	1.00	0.00



ATOM	1234	O	THR	80	-10.041	-6.092	25.870	1.00	0.00
ATOM	1230	CB	THR	80	-11.169	-8.681	24.361	1.00	0.00
ATOM	1231	OG1	THR	80	-10.920	-9.980	24.905	1.00	0.00
ATOM	1232	CG2	THR	80	-11.812	-8.815	22.990	1.00	0.00
ATOM	1235	H	THR	80	-8.869	-9.648	23.629	1.00	0.00
ATOM	1236	HA	THR	80	-9.999	-7.092	23.537	1.00	0.00
ATOM	1237	HB	THR	80	-11.853	-8.157	25.011	1.00	0.00
ATOM	1238	HG1	THR	80	-10.555	-10.551	24.217	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.601	-9.551	23.032	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.068	-9.126	22.272	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.224	-7.862	22.692	1.00	0.00
ATOM	1242	N	GLN	81	-8.857	-7.898	26.506	1.00	0.00
ATOM	1243	CA	GLN	81	-8.546	-7.350	27.825	1.00	0.00
ATOM	1249	C	GLN	81	-7.692	-6.099	27.702	1.00	0.00
ATOM	1250	O	GLN	81	-8.097	-5.017	28.123	1.00	0.00
ATOM	1244	CB	GLN	81	-7.819	-8.382	28.684	1.00	0.00
ATOM	1245	CG	GLN	81	-8.734	-9.464	29.213	1.00	0.00
ATOM	1246	CD	GLN	81	-9.716	-8.947	30.248	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.469	-9.032	31.450	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.840	-8.414	29.797	1.00	0.00
ATOM	1251	H	GLN	81	-8.514	-8.790	26.262	1.00	0.00
ATOM	1252	HA	GLN	81	-9.478	-7.088	28.302	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.366	-7.879	29.525	1.00	0.00
ATOM	1254	2HB	GLN	81	-7.045	-8.848	28.092	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.131	-10.241	29.662	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.286	-9.872	28.382	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.984	-8.384	28.829	1.00	0.00
ATOM	1258	2HE2	GLN	81	-11.481	-8.061	30.455	1.00	0.00
ATOM	1259	N	VAL	82	-6.513	-6.260	27.121	1.00	0.00
ATOM	1260	CA	VAL	82	-5.588	-5.144	26.940	1.00	0.00
ATOM	1264	C	VAL	82	-6.223	-4.024	26.116	1.00	0.00
ATOM	1265	O	VAL	82	-5.931	-2.852	26.327	1.00	0.00
ATOM	1261	CB	VAL	82	-4.263	-5.591	26.284	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.643	-6.723	27.078	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.463	-6.006	24.833	1.00	0.00
ATOM	1266	H	VAL	82	-6.256	-7.155	26.808	1.00	0.00
ATOM	1267	HA	VAL	82	-5.352	-4.752	27.927	1.00	0.00
ATOM	1268	HB	VAL	82	-3.582	-4.755	26.304	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.418	-7.273	27.591	1.00	0.00
ATOM	1270	2HG1	VAL	82	-2.950	-6.318	27.801	1.00	0.00
ATOM	1271	3HG1	VAL	82	-3.115	-7.387	26.408	1.00	0.00
ATOM	1272	1HG2	VAL	82	-3.612	-5.692	24.247	1.00	0.00
ATOM	1273	2HG2	VAL	82	-5.358	-5.540	24.446	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.563	-7.079	24.775	1.00	0.00
ATOM	1275	N	SER	83	-7.107	-4.387	25.191	1.00	0.00
ATOM	1276	CA	SER	83	-7.783	-3.397	24.366	1.00	0.00
ATOM	1279	C	SER	83	-8.711	-2.548	25.226	1.00	0.00
ATOM	1280	O	SER	83	-8.735	-1.323	25.105	1.00	0.00
ATOM	1277	CB	SER	83	-8.571	-4.077	23.246	1.00	0.00
ATOM	1278	OG	SER	83	-7.715	-4.843	22.418	1.00	0.00
ATOM	1281	H	SER	83	-7.314	-5.337	25.071	1.00	0.00
ATOM	1282	HA	SER	83	-7.029	-2.757	23.931	1.00	0.00
ATOM	1283	1HB	SER	83	-9.058	-3.325	22.643	1.00	0.00
ATOM	1284	2HB	SER	83	-9.315	-4.730	23.676	1.00	0.00
ATOM	1285	HG	SER	83	-7.360	-5.585	22.923	1.00	0.00
ATOM	1286	N	ASP	84	-9.451	-3.204	26.115	1.00	0.00
ATOM	1287	CA	ASP	84	-10.361	-2.504	27.014	1.00	0.00
ATOM	1292	C	ASP	84	-9.562	-1.691	28.024	1.00	0.00
ATOM	1293	O	ASP	84	-9.992	-0.628	28.467	1.00	0.00
ATOM	1288	CB	ASP	84	-11.280	-3.495	27.733	1.00	0.00
ATOM	1289	CG	ASP	84	-12.750	-3.141	27.590	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.158	-2.683	26.498	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.505	-3.328	28.567	1.00	0.00
ATOM	1294	H	ASP	84	-9.370	-4.183	26.181	1.00	0.00
ATOM	1295	HA	ASP	84	-10.962	-1.830	26.419	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.032	-3.506	28.785	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.127	-4.482	27.323	1.00	0.00
ATOM	1298	N	GLU	85	-8.383	-2.197	28.370	1.00	0.00
ATOM	1299	CA	GLU	85	-7.499	-1.523	29.311	1.00	0.00
ATOM	1305	C	GLU	85	-6.862	-0.298	28.657	1.00	0.00
ATOM	1306	O	GLU	85	-6.579	0.697	29.323	1.00	0.00
ATOM	1300	CB	GLU	85	-6.415	-2.484	29.810	1.00	0.00
ATOM	1301	CG	GLU	85	-6.922	-3.515	30.810	1.00	0.00



ATOM	1302	CD	GLU	85	-5.874	-4.554	31.176	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.092	-4.956	30.289	1.00	0.00
ATOM	1304	OE2	GLU	85	-5.833	-4.971	32.357	1.00	0.00
ATOM	1307	H	GLU	85	-8.094	-3.049	27.971	1.00	0.00
ATOM	1308	HA	GLU	85	-8.098	-1.198	30.149	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.633	-1.910	30.283	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.999	-3.011	28.962	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.774	-4.021	30.381	1.00	0.00
ATOM	1312	2HG	GLU	85	-7.226	-3.004	31.711	1.00	0.00
ATOM	1313	N	LEU	86	-6.648	-0.378	27.348	1.00	0.00
ATOM	1314	CA	LEU	86	-6.052	0.717	26.589	1.00	0.00
ATOM	1319	C	LEU	86	-7.094	1.793	26.289	1.00	0.00
ATOM	1320	O	LEU	86	-6.793	2.985	26.285	1.00	0.00
ATOM	1315	CB	LEU	86	-5.451	0.192	25.278	1.00	0.00
ATOM	1316	CG	LEU	86	-3.922	0.230	25.196	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.326	-1.096	25.636	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.468	0.562	23.783	1.00	0.00
ATOM	1321	H	LEU	86	-6.898	-1.202	26.876	1.00	0.00
ATOM	1322	HA	LEU	86	-5.264	1.149	27.189	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.848	0.781	24.465	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.771	-0.832	25.146	1.00	0.00
ATOM	1325	HG	LEU	86	-3.550	1.000	25.857	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.269	-1.764	24.790	1.00	0.00
ATOM	1327	2HD1	LEU	86	-3.951	-1.534	26.400	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.336	-0.931	26.033	1.00	0.00
ATOM	1329	1HD2	LEU	86	-3.790	1.561	23.526	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.902	-0.144	23.090	1.00	0.00
ATOM	1331	3HD2	LEU	86	-2.391	0.506	23.729	1.00	0.00
ATOM	1332	N	PHE	87	-8.320	1.360	26.036	1.00	0.00
ATOM	1333	CA	PHE	87	-9.413	2.276	25.731	1.00	0.00
ATOM	1341	C	PHE	87	-10.081	2.763	27.016	1.00	0.00
ATOM	1342	O	PHE	87	-10.937	3.647	26.983	1.00	0.00
ATOM	1334	CB	PHE	87	-10.438	1.575	24.831	1.00	0.00
ATOM	1335	CG	PHE	87	-11.539	2.468	24.328	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.273	3.464	23.403	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.838	2.311	24.784	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.282	4.288	22.944	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.852	3.132	24.328	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.572	4.123	23.407	1.00	0.00
ATOM	1343	H	PHE	87	-8.498	0.392	26.050	1.00	0.00
ATOM	1344	HA	PHE	87	-9.001	3.125	25.205	1.00	0.00
ATOM	1345	1HB	PHE	87	-10.895	0.766	25.384	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.927	1.167	23.972	1.00	0.00
ATOM	1347	HD1	PHE	87	-13.057	1.537	25.504	1.00	0.00
ATOM	1348	HD2	PHE	87	-10.265	3.594	23.039	1.00	0.00
ATOM	1349	HE1	PHE	87	-14.859	2.999	24.692	1.00	0.00
ATOM	1350	HE2	PHE	87	-12.062	5.063	22.223	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.362	4.767	23.050	1.00	0.00
ATOM	1352	N	GLN	88	-9.683	2.162	28.138	1.00	0.00
ATOM	1353	CA	GLN	88	-10.229	2.490	29.457	1.00	0.00
ATOM	1359	C	GLN	88	-10.394	3.993	29.667	1.00	0.00
ATOM	1360	O	GLN	88	-11.452	4.447	30.097	1.00	0.00
ATOM	1354	CB	GLN	88	-9.342	1.910	30.558	1.00	0.00
ATOM	1355	CG	GLN	88	-10.094	1.599	31.842	1.00	0.00
ATOM	1356	CD	GLN	88	-9.983	0.143	32.259	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.864	-0.166	33.443	1.00	0.00
ATOM	1358	NE2	GLN	88	-10.031	-0.762	31.294	1.00	0.00
ATOM	1361	H	GLN	88	-9.005	1.457	28.074	1.00	0.00
ATOM	1362	HA	GLN	88	-11.203	2.029	29.526	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.561	2.620	30.786	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.893	0.995	30.198	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.138	1.836	31.695	1.00	0.00
ATOM	1366	2HG	GLN	88	-9.695	2.213	32.634	1.00	0.00
ATOM	1367	1HE2	GLN	88	-10.137	-0.451	30.366	1.00	0.00
ATOM	1368	2HE2	GLN	88	-9.959	-1.706	31.543	1.00	0.00
ATOM	1369	N	GLY	89	-9.356	4.762	29.365	1.00	0.00
ATOM	1370	CA	GLY	89	-9.446	6.196	29.541	1.00	0.00
ATOM	1371	C	GLY	89	-8.289	6.947	28.920	1.00	0.00
ATOM	1372	O	GLY	89	-7.583	7.686	29.609	1.00	0.00
ATOM	1373	H	GLY	89	-8.532	4.355	29.022	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.475	6.414	30.598	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.364	6.542	29.090	1.00	0.00
ATOM	1376	N	GLY	90	-8.094	6.781	27.618	1.00	0.00



ATOM	1377	CA	GLY	90	-7.015	7.485	26.959	1.00	0.00
ATOM	1378	C	GLY	90	-6.605	6.905	25.612	1.00	0.00
ATOM	1379	O	GLY	90	-5.432	6.588	25.418	1.00	0.00
ATOM	1380	H	GLY	90	-8.688	6.193	27.104	1.00	0.00
ATOM	1381	1HA	GLY	90	-6.154	7.477	27.612	1.00	0.00
ATOM	1382	2HA	GLY	90	-7.318	8.510	26.808	1.00	0.00
ATOM	1383	N	PRO	91	-7.528	6.783	24.635	1.00	0.00
ATOM	1384	CA	PRO	91	-7.190	6.274	23.306	1.00	0.00
ATOM	1388	C	PRO	91	-6.533	7.352	22.447	1.00	0.00
ATOM	1389	O	PRO	91	-6.879	7.534	21.283	1.00	0.00
ATOM	1385	CB	PRO	91	-8.535	5.882	22.701	1.00	0.00
ATOM	1386	CG	PRO	91	-9.587	6.580	23.492	1.00	0.00
ATOM	1387	CD	PRO	91	-8.948	7.162	24.733	1.00	0.00
ATOM	1390	HA	PRO	91	-6.545	5.410	23.361	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.651	4.812	22.749	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.567	6.210	21.672	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.367	5.882	23.756	1.00	0.00
ATOM	1394	2HG	PRO	91	-10.000	7.368	22.890	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.397	6.736	25.617	1.00	0.00
ATOM	1396	2HD	PRO	91	-9.054	8.236	24.739	1.00	0.00
ATOM	1397	N	ASN	92	-5.596	8.069	23.047	1.00	0.00
ATOM	1398	CA	ASN	92	-4.889	9.152	22.378	1.00	0.00
ATOM	1403	C	ASN	92	-3.961	8.630	21.290	1.00	0.00
ATOM	1404	O	ASN	92	-3.661	7.439	21.248	1.00	0.00
ATOM	1399	CB	ASN	92	-4.097	9.951	23.408	1.00	0.00
ATOM	1400	CG	ASN	92	-4.502	11.409	23.452	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.557	12.081	22.424	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.771	11.911	24.647	1.00	0.00
ATOM	1405	H	ASN	92	-5.380	7.866	23.978	1.00	0.00
ATOM	1406	HA	ASN	92	-5.624	9.798	21.926	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.046	9.894	23.165	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.259	9.523	24.386	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.698	11.323	25.425	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.030	12.864	24.705	1.00	0.00
ATOM	1411	N	TRP	93	-3.506	9.530	20.417	1.00	0.00
ATOM	1412	CA	TRP	93	-2.608	9.164	19.319	1.00	0.00
ATOM	1423	C	TRP	93	-1.351	8.476	19.840	1.00	0.00
ATOM	1424	O	TRP	93	-0.779	7.628	19.158	1.00	0.00
ATOM	1413	CB	TRP	93	-2.219	10.393	18.489	1.00	0.00
ATOM	1414	CG	TRP	93	-3.347	11.357	18.257	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.478	12.601	18.806	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.498	11.168	17.418	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.633	13.193	18.359	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.275	12.337	17.510	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.949	10.127	16.598	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.471	12.498	16.818	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.140	10.292	15.909	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.886	11.469	16.025	1.00	0.00
ATOM	1425	H	TRP	93	-3.786	10.467	20.511	1.00	0.00
ATOM	1426	HA	TRP	93	-3.134	8.470	18.678	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.854	10.061	17.524	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.429	10.925	19.000	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.769	13.041	19.489	1.00	0.00
ATOM	1430	HE1	TRP	93	-4.949	14.097	18.607	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.387	9.211	16.497	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.060	13.401	16.895	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.508	9.506	15.266	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.808	11.551	15.469	1.00	0.00
ATOM	1435	N	GLY	94	-0.938	8.824	21.059	1.00	0.00
ATOM	1436	CA	GLY	94	0.231	8.205	21.645	1.00	0.00
ATOM	1437	C	GLY	94	0.002	6.726	21.868	1.00	0.00
ATOM	1438	O	GLY	94	0.892	5.901	21.680	1.00	0.00
ATOM	1439	H	GLY	94	-1.445	9.492	21.571	1.00	0.00
ATOM	1440	1HA	GLY	94	0.442	8.675	22.595	1.00	0.00
ATOM	1441	2HA	GLY	94	1.076	8.345	20.986	1.00	0.00
ATOM	1442	N	ARG	95	-1.219	6.396	22.255	1.00	0.00
ATOM	1443	CA	ARG	95	-1.604	5.019	22.491	1.00	0.00
ATOM	1451	C	ARG	95	-2.055	4.360	21.198	1.00	0.00
ATOM	1452	O	ARG	95	-1.951	3.143	21.049	1.00	0.00
ATOM	1444	CB	ARG	95	-2.720	4.953	23.535	1.00	0.00
ATOM	1445	CG	ARG	95	-2.523	3.861	24.569	1.00	0.00
ATOM	1446	CD	ARG	95	-1.053	3.659	24.902	1.00	0.00
ATOM	1447	NE	ARG	95	-0.784	2.301	25.372	1.00	0.00



ATOM	1448	CZ	ARG	95	-0.708	1.965	26.658	1.00	0.00
ATOM	1449	NH1	ARG	95	-0.839	2.894	27.596	1.00	0.00
ATOM	1450	NH2	ARG	95	-0.502	0.701	27.009	1.00	0.00
ATOM	1453	H	ARG	95	-1.886	7.102	22.372	1.00	0.00
ATOM	1454	HA	ARG	95	-0.738	4.492	22.858	1.00	0.00
ATOM	1455	1HB	ARG	95	-3.659	4.777	23.030	1.00	0.00
ATOM	1456	2HB	ARG	95	-2.771	5.902	24.049	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.924	2.936	24.181	1.00	0.00
ATOM	1458	2HG	ARG	95	-3.050	4.133	25.470	1.00	0.00
ATOM	1459	1HD	ARG	95	-0.771	4.361	25.674	1.00	0.00
ATOM	1460	2HD	ARG	95	-0.466	3.845	24.015	1.00	0.00
ATOM	1461	HE	ARG	95	-0.674	1.604	24.690	1.00	0.00
ATOM	1462	1HH1	ARG	95	-0.999	3.853	27.343	1.00	0.00
ATOM	1463	2HH1	ARG	95	-0.780	2.642	28.564	1.00	0.00
ATOM	1464	1HH2	ARG	95	-0.398	-0.009	26.308	1.00	0.00
ATOM	1465	2HH2	ARG	95	-0.468	0.447	27.982	1.00	0.00
ATOM	1466	N	LEU	96	-2.545	5.176	20.270	1.00	0.00
ATOM	1467	CA	LEU	96	-3.016	4.701	18.970	1.00	0.00
ATOM	1472	C	LEU	96	-1.920	3.910	18.263	1.00	0.00
ATOM	1473	O	LEU	96	-2.193	2.965	17.518	1.00	0.00
ATOM	1468	CB	LEU	96	-3.452	5.893	18.110	1.00	0.00
ATOM	1469	CG	LEU	96	-4.612	5.644	17.138	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.089	5.523	15.718	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.407	4.402	17.523	1.00	0.00
ATOM	1474	H	LEU	96	-2.595	6.138	20.465	1.00	0.00
ATOM	1475	HA	LEU	96	-3.864	4.054	19.137	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.597	6.220	17.534	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.739	6.696	18.773	1.00	0.00
ATOM	1478	HG	LEU	96	-5.282	6.491	17.169	1.00	0.00
ATOM	1479	1HD1	LEU	96	-3.623	6.452	15.425	1.00	0.00
ATOM	1480	2HD1	LEU	96	-4.909	5.305	15.049	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.362	4.725	15.668	1.00	0.00
ATOM	1482	1HD2	LEU	96	-6.462	4.599	17.401	1.00	0.00
ATOM	1483	2HD2	LEU	96	-5.203	4.150	18.553	1.00	0.00
ATOM	1484	3HD2	LEU	96	-5.120	3.578	16.886	1.00	0.00
ATOM	1485	N	VAL	97	-0.677	4.286	18.536	1.00	0.00
ATOM	1486	CA	VAL	97	0.471	3.605	17.963	1.00	0.00
ATOM	1490	C	VAL	97	0.513	2.171	18.465	1.00	0.00
ATOM	1491	O	VAL	97	0.542	1.224	17.681	1.00	0.00
ATOM	1487	CB	VAL	97	1.787	4.289	18.353	1.00	0.00
ATOM	1488	CG1	VAL	97	2.906	3.772	17.478	1.00	0.00
ATOM	1489	CG2	VAL	97	1.670	5.802	18.252	1.00	0.00
ATOM	1492	H	VAL	97	-0.532	5.028	19.167	1.00	0.00
ATOM	1493	HA	VAL	97	0.386	3.612	16.881	1.00	0.00
ATOM	1494	HB	VAL	97	2.014	4.033	19.377	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.348	4.594	16.936	1.00	0.00
ATOM	1496	2HG1	VAL	97	2.511	3.050	16.778	1.00	0.00
ATOM	1497	3HG1	VAL	97	3.657	3.302	18.094	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.631	6.089	18.317	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.077	6.132	17.308	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.221	6.260	19.060	1.00	0.00
ATOM	1501	N	ALA	98	0.499	2.031	19.786	1.00	0.00
ATOM	1502	CA	ALA	98	0.529	0.726	20.431	1.00	0.00
ATOM	1504	C	ALA	98	-0.714	-0.087	20.090	1.00	0.00
ATOM	1505	O	ALA	98	-0.664	-1.312	20.068	1.00	0.00
ATOM	1503	CB	ALA	98	0.662	0.886	21.938	1.00	0.00
ATOM	1506	H	ALA	98	0.461	2.833	20.344	1.00	0.00
ATOM	1507	HA	ALA	98	1.401	0.197	20.072	1.00	0.00
ATOM	1508	1HB	ALA	98	-0.295	0.705	22.405	1.00	0.00
ATOM	1509	2HB	ALA	98	0.991	1.889	22.166	1.00	0.00
ATOM	1510	3HB	ALA	98	1.385	0.176	22.312	1.00	0.00
ATOM	1511	N	PHE	99	-1.818	0.603	19.816	1.00	0.00
ATOM	1512	CA	PHE	99	-3.070	-0.052	19.462	1.00	0.00
ATOM	1520	C	PHE	99	-2.867	-0.936	18.240	1.00	0.00
ATOM	1521	O	PHE	99	-3.135	-2.136	18.272	1.00	0.00
ATOM	1513	CB	PHE	99	-4.146	0.996	19.141	1.00	0.00
ATOM	1514	CG	PHE	99	-5.064	1.378	20.276	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.943	0.461	20.834	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.067	2.676	20.757	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.807	0.839	21.850	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.921	3.059	21.774	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.793	2.143	22.321	1.00	0.00
ATOM	1522	H	PHE	99	-1.788	1.582	19.844	1.00	0.00



ATOM	1523	HA	PHE	99	-3.383	-0.664	20.291	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.757	0.621	18.336	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.657	1.900	18.807	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.952	-0.556	20.470	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.385	3.398	20.332	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.488	0.118	22.278	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.906	4.075	22.137	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.470	2.449	23.110	1.00	0.00
ATOM	1531	N	PHE	100	-2.396	-0.327	17.162	1.00	0.00
ATOM	1532	CA	PHE	100	-2.163	-1.052	15.922	1.00	0.00
ATOM	1540	C	PHE	100	-0.901	-1.898	16.004	1.00	0.00
ATOM	1541	O	PHE	100	-0.850	-3.005	15.462	1.00	0.00
ATOM	1533	CB	PHE	100	-2.055	-0.076	14.754	1.00	0.00
ATOM	1534	CG	PHE	100	-3.362	0.167	14.063	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.322	0.978	14.641	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.630	-0.412	12.833	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.524	1.208	14.008	1.00	0.00
ATOM	1538	CE2	PHE	100	-4.834	-0.184	12.195	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.783	0.626	12.783	1.00	0.00
ATOM	1542	H	PHE	100	-2.206	0.638	17.199	1.00	0.00
ATOM	1543	HA	PHE	100	-3.009	-1.703	15.758	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.362	-0.471	14.027	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.689	0.872	15.117	1.00	0.00
ATOM	1546	HD1	PHE	100	-2.887	-1.047	12.373	1.00	0.00
ATOM	1547	HD2	PHE	100	-4.122	1.435	15.599	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.032	-0.642	11.237	1.00	0.00
ATOM	1549	HE2	PHE	100	-6.267	1.843	14.470	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.725	0.806	12.288	1.00	0.00
ATOM	1551	N	VAL	101	0.114	-1.371	16.677	1.00	0.00
ATOM	1552	CA	VAL	101	1.384	-2.069	16.826	1.00	0.00
ATOM	1556	C	VAL	101	1.199	-3.400	17.555	1.00	0.00
ATOM	1557	O	VAL	101	1.865	-4.383	17.228	1.00	0.00
ATOM	1553	CB	VAL	101	2.427	-1.188	17.564	1.00	0.00
ATOM	1554	CG1	VAL	101	3.448	-2.027	18.323	1.00	0.00
ATOM	1555	CG2	VAL	101	3.132	-0.269	16.578	1.00	0.00
ATOM	1558	H	VAL	101	0.010	-0.481	17.081	1.00	0.00
ATOM	1559	HA	VAL	101	1.761	-2.272	15.833	1.00	0.00
ATOM	1560	HB	VAL	101	1.902	-0.571	18.279	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.974	-1.403	19.031	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.154	-2.453	17.625	1.00	0.00
ATOM	1563	3HG1	VAL	101	2.941	-2.821	18.850	1.00	0.00
ATOM	1564	1HG2	VAL	101	4.134	-0.630	16.402	1.00	0.00
ATOM	1565	2HG2	VAL	101	3.175	0.731	16.984	1.00	0.00
ATOM	1566	3HG2	VAL	101	2.586	-0.255	15.646	1.00	0.00
ATOM	1567	N	PHE	102	0.289	-3.434	18.530	1.00	0.00
ATOM	1568	CA	PHE	102	0.036	-4.655	19.288	1.00	0.00
ATOM	1576	C	PHE	102	-0.352	-5.808	18.370	1.00	0.00
ATOM	1577	O	PHE	102	0.259	-6.876	18.413	1.00	0.00
ATOM	1569	CB	PHE	102	-1.066	-4.429	20.328	1.00	0.00
ATOM	1570	CG	PHE	102	-0.549	-4.146	21.711	1.00	0.00
ATOM	1571	CD1	PHE	102	0.812	-4.056	21.958	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.431	-3.968	22.765	1.00	0.00
ATOM	1573	CE1	PHE	102	1.283	-3.794	23.229	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.964	-3.705	24.038	1.00	0.00
ATOM	1575	CZ	PHE	102	0.394	-3.617	24.272	1.00	0.00
ATOM	1578	H	PHE	102	-0.229	-2.617	18.746	1.00	0.00
ATOM	1579	HA	PHE	102	0.949	-4.918	19.797	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.687	-5.312	20.379	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.671	-3.589	20.024	1.00	0.00
ATOM	1582	HD1	PHE	102	-2.493	-4.036	22.585	1.00	0.00
ATOM	1583	HD2	PHE	102	1.508	-4.194	21.143	1.00	0.00
ATOM	1584	HE1	PHE	102	-1.662	-3.567	24.851	1.00	0.00
ATOM	1585	HE2	PHE	102	2.346	-3.726	23.408	1.00	0.00
ATOM	1586	HZ	PHE	102	0.761	-3.411	25.266	1.00	0.00
ATOM	1587	N	GLY	103	-1.365	-5.590	17.546	1.00	0.00
ATOM	1588	CA	GLY	103	-1.811	-6.631	16.643	1.00	0.00
ATOM	1589	C	GLY	103	-0.886	-6.837	15.459	1.00	0.00
ATOM	1590	O	GLY	103	-0.691	-7.967	15.024	1.00	0.00
ATOM	1591	H	GLY	103	-1.819	-4.719	17.556	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.790	-6.382	16.277	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.876	-7.559	17.193	1.00	0.00
ATOM	1594	N	ALA	104	-0.316	-5.754	14.935	1.00	0.00
ATOM	1595	CA	ALA	104	0.594	-5.843	13.791	1.00	0.00



ATOM	1597	C	ALA	104	1.823	-6.669	14.144	1.00	0.00
ATOM	1598	O	ALA	104	2.260	-7.516	13.361	1.00	0.00
ATOM	1596	CB	ALA	104	1.004	-4.454	13.319	1.00	0.00
ATOM	1599	H	ALA	104	-0.509	-4.872	15.327	1.00	0.00
ATOM	1600	HA	ALA	104	0.066	-6.337	12.981	1.00	0.00
ATOM	1601	1HB	ALA	104	2.077	-4.354	13.385	1.00	0.00
ATOM	1602	2HB	ALA	104	0.535	-3.709	13.945	1.00	0.00
ATOM	1603	3HB	ALA	104	0.692	-4.312	12.295	1.00	0.00
ATOM	1604	N	ALA	105	2.367	-6.441	15.334	1.00	0.00
ATOM	1605	CA	ALA	105	3.527	-7.192	15.782	1.00	0.00
ATOM	1607	C	ALA	105	3.113	-8.628	16.072	1.00	0.00
ATOM	1608	O	ALA	105	3.822	-9.574	15.724	1.00	0.00
ATOM	1606	CB	ALA	105	4.154	-6.548	17.013	1.00	0.00
ATOM	1609	H	ALA	105	1.966	-5.765	15.932	1.00	0.00
ATOM	1610	HA	ALA	105	4.257	-7.190	14.985	1.00	0.00
ATOM	1611	1HB	ALA	105	3.649	-5.620	17.233	1.00	0.00
ATOM	1612	2HB	ALA	105	5.200	-6.353	16.824	1.00	0.00
ATOM	1613	3HB	ALA	105	4.062	-7.217	17.856	1.00	0.00
ATOM	1614	N	LEU	106	1.940	-8.771	16.691	1.00	0.00
ATOM	1615	CA	LEU	106	1.388	-10.080	17.023	1.00	0.00
ATOM	1620	C	LEU	106	1.265	-10.928	15.767	1.00	0.00
ATOM	1621	O	LEU	106	1.736	-12.064	15.713	1.00	0.00
ATOM	1616	CB	LEU	106	0.011	-9.904	17.675	1.00	0.00
ATOM	1617	CG	LEU	106	-0.256	-10.768	18.906	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.581	-9.890	20.105	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.391	-11.746	18.637	1.00	0.00
ATOM	1622	H	LEU	106	1.420	-7.967	16.921	1.00	0.00
ATOM	1623	HA	LEU	106	2.057	-10.565	17.717	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.747	-10.120	16.936	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.088	-8.868	17.966	1.00	0.00
ATOM	1626	HG	LEU	106	0.631	-11.337	19.139	1.00	0.00
ATOM	1627	1HD1	LEU	106	-0.235	-10.371	21.007	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.649	-9.739	20.165	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.088	-8.934	19.995	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.059	-12.751	18.851	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.688	-11.677	17.601	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.234	-11.504	19.270	1.00	0.00
ATOM	1633	N	CYS	107	0.636	-10.341	14.762	1.00	0.00
ATOM	1634	CA	CYS	107	0.421	-10.983	13.474	1.00	0.00
ATOM	1637	C	CYS	107	1.739	-11.425	12.838	1.00	0.00
ATOM	1638	O	CYS	107	1.854	-12.555	12.363	1.00	0.00
ATOM	1635	CB	CYS	107	-0.321	-10.021	12.546	1.00	0.00
ATOM	1636	SG	CYS	107	-2.030	-9.699	13.036	1.00	0.00
ATOM	1639	H	CYS	107	0.303	-9.428	14.893	1.00	0.00
ATOM	1640	HA	CYS	107	-0.193	-11.855	13.635	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.335	-10.426	11.548	1.00	0.00
ATOM	1642	2HB	CYS	107	0.200	-9.075	12.533	1.00	0.00
ATOM	1643	HG	CYS	107	-2.001	-8.959	14.139	1.00	0.00
ATOM	1644	N	ALA	108	2.723	-10.533	12.833	1.00	0.00
ATOM	1645	CA	ALA	108	4.034	-10.821	12.254	1.00	0.00
ATOM	1647	C	ALA	108	4.650	-12.087	12.842	1.00	0.00
ATOM	1648	O	ALA	108	5.302	-12.856	12.131	1.00	0.00
ATOM	1646	CB	ALA	108	4.968	-9.637	12.458	1.00	0.00
ATOM	1649	H	ALA	108	2.563	-9.649	13.226	1.00	0.00
ATOM	1650	HA	ALA	108	3.904	-10.961	11.192	1.00	0.00
ATOM	1651	1HB	ALA	108	5.956	-9.996	12.701	1.00	0.00
ATOM	1652	2HB	ALA	108	4.600	-9.022	13.266	1.00	0.00
ATOM	1653	3HB	ALA	108	5.010	-9.051	11.551	1.00	0.00
ATOM	1654	N	GLU	109	4.453	-12.300	14.137	1.00	0.00
ATOM	1655	CA	GLU	109	5.008	-13.471	14.801	1.00	0.00
ATOM	1661	C	GLU	109	4.120	-14.705	14.641	1.00	0.00
ATOM	1662	O	GLU	109	4.611	-15.831	14.705	1.00	0.00
ATOM	1656	CB	GLU	109	5.263	-13.178	16.274	1.00	0.00
ATOM	1657	CG	GLU	109	6.627	-12.557	16.517	1.00	0.00
ATOM	1658	CD	GLU	109	7.364	-13.181	17.685	1.00	0.00
ATOM	1659	OE1	GLU	109	6.985	-14.292	18.107	1.00	0.00
ATOM	1660	OE2	GLU	109	8.335	-12.568	18.176	1.00	0.00
ATOM	1663	H	GLU	109	3.929	-11.651	14.660	1.00	0.00
ATOM	1664	HA	GLU	109	5.956	-13.680	14.330	1.00	0.00
ATOM	1665	1HB	GLU	109	5.204	-14.101	16.832	1.00	0.00
ATOM	1666	2HB	GLU	109	4.506	-12.497	16.634	1.00	0.00
ATOM	1667	1HG	GLU	109	6.497	-11.506	16.710	1.00	0.00
ATOM	1668	2HG	GLU	109	7.227	-12.686	15.628	1.00	0.00



ATOM	1669	N	SER	110	2.824	-14.512	14.429	1.00	0.00
ATOM	1670	CA	SER	110	1.923	-15.646	14.264	1.00	0.00
ATOM	1673	C	SER	110	2.023	-16.222	12.850	1.00	0.00
ATOM	1674	O	SER	110	1.717	-17.392	12.627	1.00	0.00
ATOM	1671	CB	SER	110	0.481	-15.241	14.569	1.00	0.00
ATOM	1672	OG	SER	110	0.237	-13.895	14.211	1.00	0.00
ATOM	1675	H	SER	110	2.466	-13.598	14.386	1.00	0.00
ATOM	1676	HA	SER	110	2.226	-16.409	14.966	1.00	0.00
ATOM	1677	1HB	SER	110	0.294	-15.359	15.626	1.00	0.00
ATOM	1678	2HB	SER	110	-0.193	-15.875	14.013	1.00	0.00
ATOM	1679	HG	SER	110	0.572	-13.732	13.323	1.00	0.00
ATOM	1680	N	VAL	111	2.459	-15.394	11.900	1.00	0.00
ATOM	1681	CA	VAL	111	2.600	-15.833	10.513	1.00	0.00
ATOM	1685	C	VAL	111	3.774	-16.799	10.362	1.00	0.00
ATOM	1686	O	VAL	111	3.718	-17.739	9.571	1.00	0.00
ATOM	1682	CB	VAL	111	2.797	-14.640	9.546	1.00	0.00
ATOM	1683	CG1	VAL	111	3.057	-15.126	8.126	1.00	0.00
ATOM	1684	CG2	VAL	111	1.587	-13.722	9.572	1.00	0.00
ATOM	1687	H	VAL	111	2.691	-14.471	12.139	1.00	0.00
ATOM	1688	HA	VAL	111	1.691	-16.346	10.235	1.00	0.00
ATOM	1689	HB	VAL	111	3.659	-14.075	9.871	1.00	0.00
ATOM	1690	1HG1	VAL	111	4.120	-15.145	7.941	1.00	0.00
ATOM	1691	2HG1	VAL	111	2.582	-14.457	7.423	1.00	0.00
ATOM	1692	3HG1	VAL	111	2.654	-16.121	8.007	1.00	0.00
ATOM	1693	1HG2	VAL	111	0.703	-14.300	9.800	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.471	-13.251	8.607	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.727	-12.965	10.329	1.00	0.00
ATOM	1696	N	ASN	112	4.836	-16.573	11.127	1.00	0.00
ATOM	1697	CA	ASN	112	6.006	-17.445	11.059	1.00	0.00
ATOM	1702	C	ASN	112	5.821	-18.669	11.951	1.00	0.00
ATOM	1703	O	ASN	112	6.697	-19.530	12.034	1.00	0.00
ATOM	1698	CB	ASN	112	7.294	-16.687	11.422	1.00	0.00
ATOM	1699	CG	ASN	112	7.334	-16.204	12.861	1.00	0.00
ATOM	1700	OD1	ASN	112	7.542	-16.980	13.789	1.00	0.00
ATOM	1701	ND2	ASN	112	7.153	-14.908	13.055	1.00	0.00
ATOM	1704	H	ASN	112	4.832	-15.814	11.752	1.00	0.00
ATOM	1705	HA	ASN	112	6.086	-17.787	10.037	1.00	0.00
ATOM	1706	1HB	ASN	112	7.389	-15.829	10.772	1.00	0.00
ATOM	1707	2HB	ASN	112	8.139	-17.340	11.265	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.002	-14.336	12.272	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.178	-14.574	13.975	1.00	0.00
ATOM	1710	N	LYS	113	4.663	-18.743	12.595	1.00	0.00
ATOM	1711	CA	LYS	113	4.328	-19.859	13.463	1.00	0.00
ATOM	1717	C	LYS	113	3.078	-20.560	12.939	1.00	0.00
ATOM	1718	O	LYS	113	2.636	-20.295	11.821	1.00	0.00
ATOM	1712	CB	LYS	113	4.102	-19.371	14.896	1.00	0.00
ATOM	1713	CG	LYS	113	5.328	-19.507	15.784	1.00	0.00
ATOM	1714	CD	LYS	113	5.285	-18.529	16.948	1.00	0.00
ATOM	1715	CE	LYS	113	6.403	-17.505	16.850	1.00	0.00
ATOM	1716	NZ	LYS	113	6.679	-16.855	18.158	1.00	0.00
ATOM	1719	H	LYS	113	4.002	-18.032	12.465	1.00	0.00
ATOM	1720	HA	LYS	113	5.153	-20.555	13.449	1.00	0.00
ATOM	1721	1HB	LYS	113	3.299	-19.943	15.336	1.00	0.00
ATOM	1722	2HB	LYS	113	3.817	-18.329	14.868	1.00	0.00
ATOM	1723	1HG	LYS	113	6.210	-19.310	15.193	1.00	0.00
ATOM	1724	2HG	LYS	113	5.369	-20.512	16.173	1.00	0.00
ATOM	1725	1HD	LYS	113	5.390	-19.079	17.872	1.00	0.00
ATOM	1726	2HD	LYS	113	4.337	-18.015	16.937	1.00	0.00
ATOM	1727	1HE	LYS	113	6.119	-16.749	16.133	1.00	0.00
ATOM	1728	2HE	LYS	113	7.299	-18.002	16.511	1.00	0.00
ATOM	1729	1HZ	LYS	113	7.585	-17.197	18.545	1.00	0.00
ATOM	1730	2HZ	LYS	113	5.923	-17.069	18.832	1.00	0.00
ATOM	1731	3HZ	LYS	113	6.740	-15.815	18.039	1.00	0.00
ATOM	1732	N	GLU	114	2.504	-21.443	13.738	1.00	0.00
ATOM	1733	CA	GLU	114	1.305	-22.164	13.329	1.00	0.00
ATOM	1739	C	GLU	114	0.055	-21.458	13.841	1.00	0.00
ATOM	1740	O	GLU	114	-0.742	-22.034	14.582	1.00	0.00
ATOM	1734	CB	GLU	114	1.352	-23.604	13.834	1.00	0.00
ATOM	1735	CG	GLU	114	2.574	-24.362	13.355	1.00	0.00
ATOM	1736	CD	GLU	114	2.422	-25.859	13.479	1.00	0.00
ATOM	1737	OE1	GLU	114	1.304	-26.366	13.264	1.00	0.00
ATOM	1738	OE2	GLU	114	3.423	-26.534	13.787	1.00	0.00
ATOM	1741	H	GLU	114	2.890	-21.615	14.619	1.00	0.00



ATOM	1742	HA	GLU	114	1.280	-22.173	12.250	1.00	0.00
ATOM	1743	1HB	GLU	114	0.473	-24.128	13.488	1.00	0.00
ATOM	1744	2HB	GLU	114	1.357	-23.600	14.914	1.00	0.00
ATOM	1745	1HG	GLU	114	3.423	-24.050	13.943	1.00	0.00
ATOM	1746	2HG	GLU	114	2.749	-24.117	12.318	1.00	0.00
ATOM	1747	N	MET	115	-0.105	-20.202	13.449	1.00	0.00
ATOM	1748	CA	MET	115	-1.249	-19.406	13.870	1.00	0.00
ATOM	1753	C	MET	115	-1.791	-18.594	12.699	1.00	0.00
ATOM	1754	O	MET	115	-2.044	-17.396	12.822	1.00	0.00
ATOM	1749	CB	MET	115	-0.855	-18.467	15.015	1.00	0.00
ATOM	1750	CG	MET	115	-0.620	-19.172	16.340	1.00	0.00
ATOM	1751	SD	MET	115	1.129	-19.294	16.761	1.00	0.00
ATOM	1752	CE	MET	115	1.129	-20.751	17.803	1.00	0.00
ATOM	1755	H	MET	115	0.572	-19.793	12.863	1.00	0.00
ATOM	1756	HA	MET	115	-2.018	-20.082	14.215	1.00	0.00
ATOM	1757	1HB	MET	115	-1.642	-17.740	15.154	1.00	0.00
ATOM	1758	2HB	MET	115	0.053	-17.952	14.742	1.00	0.00
ATOM	1759	1HG	MET	115	-1.033	-20.170	16.281	1.00	0.00
ATOM	1760	2HG	MET	115	-1.125	-18.622	17.120	1.00	0.00
ATOM	1761	1HE	MET	115	0.119	-21.122	17.906	1.00	0.00
ATOM	1762	2HE	MET	115	1.519	-20.497	18.778	1.00	0.00
ATOM	1763	3HE	MET	115	1.748	-21.513	17.355	1.00	0.00
ATOM	1764	N	GLU	116	-1.956	-19.261	11.561	1.00	0.00
ATOM	1765	CA	GLU	116	-2.454	-18.617	10.345	1.00	0.00
ATOM	1771	C	GLU	116	-3.828	-17.955	10.544	1.00	0.00
ATOM	1772	O	GLU	116	-3.975	-16.761	10.277	1.00	0.00
ATOM	1766	CB	GLU	116	-2.513	-19.618	9.185	1.00	0.00
ATOM	1767	CG	GLU	116	-1.404	-20.658	9.210	1.00	0.00
ATOM	1768	CD	GLU	116	-1.466	-21.597	8.024	1.00	0.00
ATOM	1769	OE1	GLU	116	-2.381	-22.443	7.981	1.00	0.00
ATOM	1770	OE2	GLU	116	-0.601	-21.487	7.129	1.00	0.00
ATOM	1773	H	GLU	116	-1.727	-20.213	11.532	1.00	0.00
ATOM	1774	HA	GLU	116	-1.746	-17.842	10.087	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.446	-19.074	8.255	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.462	-20.134	9.221	1.00	0.00
ATOM	1777	1HG	GLU	116	-1.493	-21.238	10.117	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.451	-20.150	9.200	1.00	0.00
ATOM	1779	N	PRO	117	-4.862	-18.698	11.006	1.00	0.00
ATOM	1780	CA	PRO	117	-6.202	-18.127	11.207	1.00	0.00
ATOM	1784	C	PRO	117	-6.218	-17.029	12.265	1.00	0.00
ATOM	1785	O	PRO	117	-7.006	-16.088	12.187	1.00	0.00
ATOM	1781	CB	PRO	117	-7.052	-19.318	11.669	1.00	0.00
ATOM	1782	CG	PRO	117	-6.274	-20.530	11.287	1.00	0.00
ATOM	1783	CD	PRO	117	-4.830	-20.132	11.358	1.00	0.00
ATOM	1786	HA	PRO	117	-6.602	-17.735	10.283	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.010	-19.293	11.169	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.198	-19.264	12.738	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.530	-20.830	10.282	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.478	-21.331	11.983	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.247	-20.690	10.641	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.447	-20.278	12.359	1.00	0.00
ATOM	1793	N	LEU	118	-5.343	-17.158	13.253	1.00	0.00
ATOM	1794	CA	LEU	118	-5.254	-16.186	14.337	1.00	0.00
ATOM	1799	C	LEU	118	-4.917	-14.790	13.820	1.00	0.00
ATOM	1800	O	LEU	118	-5.384	-13.794	14.369	1.00	0.00
ATOM	1795	CB	LEU	118	-4.207	-16.633	15.360	1.00	0.00
ATOM	1796	CG	LEU	118	-4.752	-17.461	16.522	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.682	-18.946	16.197	1.00	0.00
ATOM	1798	CD2	LEU	118	-3.983	-17.150	17.795	1.00	0.00
ATOM	1801	H	LEU	118	-4.742	-17.928	13.254	1.00	0.00
ATOM	1802	HA	LEU	118	-6.218	-16.149	14.823	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.733	-15.754	15.768	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.459	-17.219	14.846	1.00	0.00
ATOM	1805	HG	LEU	118	-5.789	-17.203	16.684	1.00	0.00
ATOM	1806	1HD1	LEU	118	-5.489	-19.462	16.696	1.00	0.00
ATOM	1807	2HD1	LEU	118	-3.736	-19.342	16.533	1.00	0.00
ATOM	1808	3HD1	LEU	118	-4.772	-19.085	15.130	1.00	0.00
ATOM	1809	1HD2	LEU	118	-3.614	-18.069	18.226	1.00	0.00
ATOM	1810	2HD2	LEU	118	-4.637	-16.660	18.501	1.00	0.00
ATOM	1811	3HD2	LEU	118	-3.151	-16.501	17.565	1.00	0.00
ATOM	1812	N	VAL	119	-4.110	-14.725	12.766	1.00	0.00
ATOM	1813	CA	VAL	119	-3.706	-13.450	12.174	1.00	0.00
ATOM	1817	C	VAL	119	-4.920	-12.625	11.746	1.00	0.00



ATOM	1818	O	VAL	119	-5.055	-11.458	12.120	1.00	0.00
ATOM	1814	CB	VAL	119	-2.783	-13.671	10.956	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.452	-12.351	10.276	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.513	-14.394	11.371	1.00	0.00
ATOM	1819	H	VAL	119	-3.774	-15.559	12.374	1.00	0.00
ATOM	1820	HA	VAL	119	-3.156	-12.896	12.922	1.00	0.00
ATOM	1821	HB	VAL	119	-3.307	-14.292	10.243	1.00	0.00
ATOM	1822	1HG1	VAL	119	-3.359	-11.901	9.898	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.770	-12.528	9.457	1.00	0.00
ATOM	1824	3HG1	VAL	119	-1.991	-11.683	10.990	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.269	-14.137	12.392	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.702	-14.100	10.722	1.00	0.00
ATOM	1827	3HG2	VAL	119	-1.666	-15.461	11.296	1.00	0.00
ATOM	1828	N	GLY	120	-5.805	-13.238	10.967	1.00	0.00
ATOM	1829	CA	GLY	120	-6.993	-12.543	10.506	1.00	0.00
ATOM	1830	C	GLY	120	-7.924	-12.185	11.644	1.00	0.00
ATOM	1831	O	GLY	120	-8.591	-11.151	11.607	1.00	0.00
ATOM	1832	H	GLY	120	-5.648	-14.169	10.705	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.519	-13.168	9.807	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.692	-11.635	10.004	1.00	0.00
ATOM	1835	N	GLN	121	-7.962	-13.031	12.665	1.00	0.00
ATOM	1836	CA	GLN	121	-8.806	-12.783	13.821	1.00	0.00
ATOM	1842	C	GLN	121	-8.293	-11.561	14.575	1.00	0.00
ATOM	1843	O	GLN	121	-9.057	-10.671	14.900	1.00	0.00
ATOM	1837	CB	GLN	121	-8.868	-14.003	14.746	1.00	0.00
ATOM	1838	CG	GLN	121	-9.446	-15.274	14.114	1.00	0.00
ATOM	1839	CD	GLN	121	-10.190	-15.046	12.803	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.724	-15.440	11.735	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.346	-14.415	12.866	1.00	0.00
ATOM	1844	H	GLN	121	-7.404	-13.832	12.645	1.00	0.00
ATOM	1845	HA	GLN	121	-9.803	-12.563	13.463	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.476	-13.751	15.603	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.870	-14.225	15.088	1.00	0.00
ATOM	1848	1HG	GLN	121	-10.130	-15.723	14.821	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.635	-15.960	13.926	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.673	-14.116	13.747	1.00	0.00
ATOM	1851	2HE2	GLN	121	-11.839	-14.267	12.032	1.00	0.00
ATOM	1852	N	VAL	122	-6.994	-11.491	14.820	1.00	0.00
ATOM	1853	CA	VAL	122	-6.431	-10.331	15.506	1.00	0.00
ATOM	1857	C	VAL	122	-6.721	-9.075	14.690	1.00	0.00
ATOM	1858	O	VAL	122	-6.995	-8.008	15.240	1.00	0.00
ATOM	1854	CB	VAL	122	-4.905	-10.474	15.723	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.333	-9.235	16.394	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.586	-11.716	16.541	1.00	0.00
ATOM	1859	H	VAL	122	-6.400	-12.214	14.515	1.00	0.00
ATOM	1860	HA	VAL	122	-6.923	-10.236	16.472	1.00	0.00
ATOM	1861	HB	VAL	122	-4.434	-10.578	14.756	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.933	-9.501	17.361	1.00	0.00
ATOM	1863	2HG1	VAL	122	-5.115	-8.500	16.518	1.00	0.00
ATOM	1864	3HG1	VAL	122	-3.546	-8.823	15.780	1.00	0.00
ATOM	1865	1HG2	VAL	122	-5.402	-11.920	17.219	1.00	0.00
ATOM	1866	2HG2	VAL	122	-3.680	-11.553	17.106	1.00	0.00
ATOM	1867	3HG2	VAL	122	-4.451	-12.559	15.879	1.00	0.00
ATOM	1868	N	GLN	123	-6.694	-9.229	13.371	1.00	0.00
ATOM	1869	CA	GLN	123	-6.985	-8.131	12.467	1.00	0.00
ATOM	1875	C	GLN	123	-8.417	-7.641	12.668	1.00	0.00
ATOM	1876	O	GLN	123	-8.660	-6.437	12.772	1.00	0.00
ATOM	1870	CB	GLN	123	-6.769	-8.565	11.015	1.00	0.00
ATOM	1871	CG	GLN	123	-6.327	-7.432	10.104	1.00	0.00
ATOM	1872	CD	GLN	123	-5.749	-7.929	8.796	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.348	-8.753	8.110	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.577	-7.430	8.443	1.00	0.00
ATOM	1877	H	GLN	123	-6.494	-10.116	12.999	1.00	0.00
ATOM	1878	HA	GLN	123	-6.308	-7.324	12.700	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.692	-8.972	10.629	1.00	0.00
ATOM	1880	2HB	GLN	123	-6.011	-9.337	10.988	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.576	-6.848	10.615	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.181	-6.808	9.887	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.154	-6.777	9.037	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.180	-7.736	7.602	1.00	0.00
ATOM	1885	N	GLU	124	-9.364	-8.577	12.740	1.00	0.00
ATOM	1886	CA	GLU	124	-10.762	-8.221	12.942	1.00	0.00
ATOM	1892	C	GLU	124	-10.995	-7.724	14.366	1.00	0.00



ATOM	1893	O	GLU	124	-11.719	-6.755	14.561	1.00	0.00
ATOM	1887	CB	GLU	124	-11.696	-9.394	12.616	1.00	0.00
ATOM	1888	CG	GLU	124	-11.452	-10.627	13.463	1.00	0.00
ATOM	1889	CD	GLU	124	-12.559	-11.655	13.364	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.308	-11.637	12.366	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.678	-12.495	14.283	1.00	0.00
ATOM	1894	H	GLU	124	-9.112	-9.526	12.661	1.00	0.00
ATOM	1895	HA	GLU	124	-10.983	-7.408	12.264	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.563	-9.664	11.580	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.717	-9.077	12.767	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.353	-10.325	14.494	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.526	-11.080	13.145	1.00	0.00
ATOM	1900	N	TRP	125	-10.367	-8.365	15.359	1.00	0.00
ATOM	1901	CA	TRP	125	-10.523	-7.934	16.750	1.00	0.00
ATOM	1912	C	TRP	125	-10.103	-6.479	16.877	1.00	0.00
ATOM	1913	O	TRP	125	-10.727	-5.690	17.589	1.00	0.00
ATOM	1902	CB	TRP	125	-9.655	-8.761	17.720	1.00	0.00
ATOM	1903	CG	TRP	125	-9.821	-10.255	17.676	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.876	-10.984	17.196	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.859	-11.208	18.144	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.616	-12.330	17.333	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.382	-12.490	17.902	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.599	-11.095	18.740	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.684	-13.652	18.226	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.911	-12.247	19.065	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.452	-13.511	18.802	1.00	0.00
ATOM	1914	H	TRP	125	-9.778	-9.133	15.151	1.00	0.00
ATOM	1915	HA	TRP	125	-11.564	-8.023	17.016	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.856	-8.438	18.726	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.619	-8.555	17.501	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.770	-10.557	16.773	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.217	-13.056	17.065	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.173	-10.128	18.969	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.086	-14.634	18.027	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.935	-12.179	19.521	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.879	-14.386	19.081	1.00	0.00
ATOM	1924	N	MET	126	-9.028	-6.141	16.184	1.00	0.00
ATOM	1925	CA	MET	126	-8.494	-4.789	16.216	1.00	0.00
ATOM	1930	C	MET	126	-9.395	-3.813	15.478	1.00	0.00
ATOM	1931	O	MET	126	-9.788	-2.785	16.029	1.00	0.00
ATOM	1926	CB	MET	126	-7.091	-4.762	15.608	1.00	0.00
ATOM	1927	CG	MET	126	-6.091	-3.945	16.408	1.00	0.00
ATOM	1928	SD	MET	126	-4.382	-4.382	16.026	1.00	0.00
ATOM	1929	CE	MET	126	-4.235	-3.761	14.353	1.00	0.00
ATOM	1932	H	MET	126	-8.575	-6.833	15.636	1.00	0.00
ATOM	1933	HA	MET	126	-8.435	-4.481	17.247	1.00	0.00
ATOM	1934	1HB	MET	126	-7.153	-4.345	14.613	1.00	0.00
ATOM	1935	2HB	MET	126	-6.723	-5.774	15.541	1.00	0.00
ATOM	1936	1HG	MET	126	-6.266	-4.117	17.459	1.00	0.00
ATOM	1937	2HG	MET	126	-6.239	-2.899	16.184	1.00	0.00
ATOM	1938	1HE	MET	126	-4.629	-2.757	14.307	1.00	0.00
ATOM	1939	2HE	MET	126	-4.792	-4.398	13.680	1.00	0.00
ATOM	1940	3HE	MET	126	-3.195	-3.753	14.063	1.00	0.00
ATOM	1941	N	VAL	127	-9.712	-4.125	14.230	1.00	0.00
ATOM	1942	CA	VAL	127	-10.551	-3.246	13.430	1.00	0.00
ATOM	1946	C	VAL	127	-11.947	-3.086	14.029	1.00	0.00
ATOM	1947	O	VAL	127	-12.489	-1.985	14.015	1.00	0.00
ATOM	1943	CB	VAL	127	-10.634	-3.698	11.947	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.540	-4.908	11.772	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.099	-2.547	11.066	1.00	0.00
ATOM	1948	H	VAL	127	-9.363	-4.956	13.836	1.00	0.00
ATOM	1949	HA	VAL	127	-10.083	-2.272	13.442	1.00	0.00
ATOM	1950	HB	VAL	127	-9.639	-3.977	11.629	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.841	-5.277	12.741	1.00	0.00
ATOM	1952	2HG1	VAL	127	-11.006	-5.683	11.242	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.416	-4.624	11.207	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.280	-1.861	10.910	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.916	-2.030	11.548	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.430	-2.934	10.113	1.00	0.00
ATOM	1957	N	GLU	128	-12.522	-4.160	14.573	1.00	0.00
ATOM	1958	CA	GLU	128	-13.851	-4.080	15.168	1.00	0.00
ATOM	1964	C	GLU	128	-13.846	-3.144	16.365	1.00	0.00
ATOM	1965	O	GLU	128	-14.713	-2.282	16.496	1.00	0.00



ATOM	1959	CB	GLU	128	-14.347	-5.466	15.577	1.00	0.00
ATOM	1960	CG	GLU	128	-14.883	-6.282	14.411	1.00	0.00
ATOM	1961	CD	GLU	128	-16.343	-6.643	14.578	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.730	-7.075	15.683	1.00	0.00
ATOM	1963	OE2	GLU	128	-17.113	-6.496	13.605	1.00	0.00
ATOM	1966	H	GLU	128	-12.040	-5.025	14.581	1.00	0.00
ATOM	1967	HA	GLU	128	-14.516	-3.674	14.423	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.137	-5.353	16.304	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.530	-6.011	16.026	1.00	0.00
ATOM	1970	1HG	GLU	128	-14.308	-7.193	14.332	1.00	0.00
ATOM	1971	2HG	GLU	128	-14.774	-5.707	13.505	1.00	0.00
ATOM	1972	N	TYR	129	-12.858	-3.303	17.227	1.00	0.00
ATOM	1973	CA	TYR	129	-12.732	-2.461	18.405	1.00	0.00
ATOM	1982	C	TYR	129	-12.523	-1.006	18.004	1.00	0.00
ATOM	1983	O	TYR	129	-12.952	-0.078	18.697	1.00	0.00
ATOM	1974	CB	TYR	129	-11.545	-2.921	19.249	1.00	0.00
ATOM	1975	CG	TYR	129	-11.640	-2.498	20.694	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.369	-3.240	21.614	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.010	-1.341	21.134	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.470	-2.837	22.932	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.102	-0.936	22.447	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.833	-1.685	23.342	1.00	0.00
ATOM	1981	OH	TYR	129	-11.936	-1.268	24.646	1.00	0.00
ATOM	1984	H	TYR	129	-12.185	-4.001	17.061	1.00	0.00
ATOM	1985	HA	TYR	129	-13.638	-2.546	18.984	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.639	-2.499	18.838	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.480	-3.997	19.211	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.865	-4.142	21.288	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.438	-0.755	20.429	1.00	0.00
ATOM	1990	HE1	TYR	129	-13.042	-3.424	23.635	1.00	0.00
ATOM	1991	HE2	TYR	129	-10.604	-0.033	22.769	1.00	0.00
ATOM	1992	HH	TYR	129	-12.293	-1.987	25.198	1.00	0.00
ATOM	1993	N	LEU	130	-11.837	-0.823	16.894	1.00	0.00
ATOM	1994	CA	LEU	130	-11.519	0.504	16.398	1.00	0.00
ATOM	1999	C	LEU	130	-12.706	1.212	15.741	1.00	0.00
ATOM	2000	O	LEU	130	-13.073	2.307	16.156	1.00	0.00
ATOM	1995	CB	LEU	130	-10.357	0.431	15.419	1.00	0.00
ATOM	1996	CG	LEU	130	-9.046	1.019	15.938	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.977	-0.057	16.037	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.585	2.157	15.042	1.00	0.00
ATOM	2001	H	LEU	130	-11.512	-1.613	16.404	1.00	0.00
ATOM	2002	HA	LEU	130	-11.202	1.094	17.247	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.639	0.970	14.531	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.189	-0.608	15.163	1.00	0.00
ATOM	2005	HG	LEU	130	-9.207	1.419	16.929	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.048	0.319	15.636	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.288	-0.925	15.473	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.838	-0.333	17.072	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.954	2.827	15.607	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.446	2.695	14.674	1.00	0.00
ATOM	2011	3HD2	LEU	130	-8.029	1.754	14.209	1.00	0.00
ATOM	2012	N	GLU	131	-13.286	0.624	14.698	1.00	0.00
ATOM	2013	CA	GLU	131	-14.397	1.276	13.998	1.00	0.00
ATOM	2019	C	GLU	131	-15.635	1.425	14.883	1.00	0.00
ATOM	2020	O	GLU	131	-16.498	2.257	14.611	1.00	0.00
ATOM	2014	CB	GLU	131	-14.750	0.547	12.692	1.00	0.00
ATOM	2015	CG	GLU	131	-14.929	-0.953	12.830	1.00	0.00
ATOM	2016	CD	GLU	131	-15.608	-1.568	11.622	1.00	0.00
ATOM	2017	OE1	GLU	131	-16.798	-1.266	11.386	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.956	-2.359	10.908	1.00	0.00
ATOM	2021	H	GLU	131	-12.948	-0.245	14.376	1.00	0.00
ATOM	2022	HA	GLU	131	-14.060	2.270	13.744	1.00	0.00
ATOM	2023	1HB	GLU	131	-13.962	0.727	11.975	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.671	0.958	12.307	1.00	0.00
ATOM	2025	1HG	GLU	131	-15.524	-1.154	13.706	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.956	-1.407	12.946	1.00	0.00
ATOM	2027	N	THR	132	-15.729	0.627	15.936	1.00	0.00
ATOM	2028	CA	THR	132	-16.877	0.699	16.828	1.00	0.00
ATOM	2032	C	THR	132	-16.675	1.704	17.971	1.00	0.00
ATOM	2033	O	THR	132	-17.642	2.306	18.442	1.00	0.00
ATOM	2029	CB	THR	132	-17.213	-0.686	17.412	1.00	0.00
ATOM	2030	OG1	THR	132	-17.220	-1.664	16.365	1.00	0.00
ATOM	2031	CG2	THR	132	-18.570	-0.680	18.101	1.00	0.00



ATOM	2034	H	THR	132	-15.020	-0.026	16.111	1.00	0.00
ATOM	2035	HA	THR	132	-17.723	1.021	16.237	1.00	0.00
ATOM	2036	HB	THR	132	-16.453	-0.947	18.138	1.00	0.00
ATOM	2037	HG1	THR	132	-16.322	-1.992	16.225	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.303	-1.141	17.456	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.862	0.337	18.311	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.505	-1.235	19.025	1.00	0.00
ATOM	2041	N	ARG	133	-15.437	1.884	18.442	1.00	0.00
ATOM	2042	CA	ARG	133	-15.200	2.817	19.549	1.00	0.00
ATOM	2050	C	ARG	133	-14.040	3.779	19.300	1.00	0.00
ATOM	2051	O	ARG	133	-14.147	4.961	19.621	1.00	0.00
ATOM	2043	CB	ARG	133	-14.952	2.071	20.871	1.00	0.00
ATOM	2044	CG	ARG	133	-15.566	0.680	20.955	1.00	0.00
ATOM	2045	CD	ARG	133	-15.035	-0.085	22.162	1.00	0.00
ATOM	2046	NE	ARG	133	-16.107	-0.691	22.957	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.929	-1.203	24.184	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.733	-1.162	24.762	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.952	-1.748	24.833	1.00	0.00
ATOM	2052	H	ARG	133	-14.689	1.383	18.054	1.00	0.00
ATOM	2053	HA	ARG	133	-16.097	3.408	19.659	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.356	2.664	21.679	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.887	1.971	21.015	1.00	0.00
ATOM	2056	1HG	ARG	133	-15.323	0.133	20.057	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.638	0.775	21.045	1.00	0.00
ATOM	2058	1HD	ARG	133	-14.480	0.600	22.787	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.375	-0.866	21.814	1.00	0.00
ATOM	2060	HE	ARG	133	-17.006	-0.725	22.551	1.00	0.00
ATOM	2061	1HH1	ARG	133	-13.955	-0.743	24.290	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.591	-1.568	25.677	1.00	0.00
ATOM	2063	1HH2	ARG	133	-17.866	-1.781	24.410	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.818	-2.127	25.752	1.00	0.00
ATOM	2065	N	LEU	134	-12.929	3.288	18.762	1.00	0.00
ATOM	2066	CA	LEU	134	-11.767	4.147	18.524	1.00	0.00
ATOM	2071	C	LEU	134	-12.111	5.293	17.583	1.00	0.00
ATOM	2072	O	LEU	134	-11.779	6.449	17.855	1.00	0.00
ATOM	2067	CB	LEU	134	-10.602	3.339	17.962	1.00	0.00
ATOM	2068	CG	LEU	134	-9.422	3.134	18.913	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.731	4.460	19.209	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.881	2.469	20.201	1.00	0.00
ATOM	2073	H	LEU	134	-12.878	2.333	18.532	1.00	0.00
ATOM	2074	HA	LEU	134	-11.472	4.565	19.477	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.238	3.841	17.078	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.973	2.368	17.674	1.00	0.00
ATOM	2077	HG	LEU	134	-8.706	2.482	18.437	1.00	0.00
ATOM	2078	1HD1	LEU	134	-7.874	4.572	18.561	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.407	4.477	20.240	1.00	0.00
ATOM	2080	3HD1	LEU	134	-9.421	5.274	19.037	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.799	1.396	20.099	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.909	2.735	20.398	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.260	2.800	21.020	1.00	0.00
ATOM	2084	N	ALA	135	-12.776	4.965	16.480	1.00	0.00
ATOM	2085	CA	ALA	135	-13.176	5.950	15.494	1.00	0.00
ATOM	2087	C	ALA	135	-13.932	7.109	16.135	1.00	0.00
ATOM	2088	O	ALA	135	-13.722	8.259	15.761	1.00	0.00
ATOM	2086	CB	ALA	135	-14.021	5.296	14.412	1.00	0.00
ATOM	2089	H	ALA	135	-12.998	4.023	16.320	1.00	0.00
ATOM	2090	HA	ALA	135	-12.280	6.335	15.029	1.00	0.00
ATOM	2091	1HB	ALA	135	-13.444	5.223	13.501	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.901	5.895	14.233	1.00	0.00
ATOM	2093	3HB	ALA	135	-14.314	4.309	14.733	1.00	0.00
ATOM	2094	N	ASP	136	-14.801	6.815	17.103	1.00	0.00
ATOM	2095	CA	ASP	136	-15.563	7.869	17.773	1.00	0.00
ATOM	2100	C	ASP	136	-14.631	8.846	18.472	1.00	0.00
ATOM	2101	O	ASP	136	-14.768	10.061	18.311	1.00	0.00
ATOM	2096	CB	ASP	136	-16.568	7.287	18.766	1.00	0.00
ATOM	2097	CG	ASP	136	-17.809	8.150	18.890	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.074	8.955	17.972	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.530	8.025	19.903	1.00	0.00
ATOM	2102	H	ASP	136	-14.929	5.879	17.377	1.00	0.00
ATOM	2103	HA	ASP	136	-16.100	8.413	17.009	1.00	0.00
ATOM	2104	1HB	ASP	136	-16.103	7.212	19.738	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.867	6.302	18.435	1.00	0.00
ATOM	2106	N	TRP	137	-13.659	8.321	19.216	1.00	0.00



ATOM	2107	CA	TRP	137	-12.695	9.168	19.891	1.00	0.00
ATOM	2118	C	TRP	137	-11.936	9.991	18.857	1.00	0.00
ATOM	2119	O	TRP	137	-11.812	11.206	18.978	1.00	0.00
ATOM	2108	CB	TRP	137	-11.714	8.315	20.713	1.00	0.00
ATOM	2109	CG	TRP	137	-10.613	9.111	21.356	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.576	9.563	22.640	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.389	9.545	20.748	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.418	10.265	22.864	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.673	10.266	21.716	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.832	9.397	19.475	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.434	10.834	21.451	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.602	9.963	19.214	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.913	10.674	20.199	1.00	0.00
ATOM	2120	H	TRP	137	-13.574	7.343	19.294	1.00	0.00
ATOM	2121	HA	TRP	137	-13.231	9.837	20.547	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.260	7.579	20.065	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.258	7.810	21.496	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.351	9.385	23.363	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.167	10.696	23.705	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.350	8.851	18.699	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.888	11.378	22.198	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.158	9.857	18.235	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.951	11.101	19.952	1.00	0.00
ATOM	2130	N	ILE	138	-11.428	9.302	17.844	1.00	0.00
ATOM	2131	CA	ILE	138	-10.659	9.930	16.778	1.00	0.00
ATOM	2136	C	ILE	138	-11.443	11.037	16.073	1.00	0.00
ATOM	2137	O	ILE	138	-10.920	12.134	15.860	1.00	0.00
ATOM	2132	CB	ILE	138	-10.193	8.878	15.742	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.073	8.017	16.330	1.00	0.00
ATOM	2134	CG2	ILE	138	-9.723	9.544	14.457	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.151	6.562	15.928	1.00	0.00
ATOM	2138	H	ILE	138	-11.567	8.329	17.820	1.00	0.00
ATOM	2139	HA	ILE	138	-9.778	10.366	17.226	1.00	0.00
ATOM	2140	HB	ILE	138	-11.032	8.243	15.502	1.00	0.00
ATOM	2141	1HG1	ILE	138	-9.119	8.067	17.408	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.120	8.401	15.998	1.00	0.00
ATOM	2143	1HG2	ILE	138	-9.465	8.786	13.731	1.00	0.00
ATOM	2144	2HG2	ILE	138	-8.857	10.154	14.664	1.00	0.00
ATOM	2145	3HG2	ILE	138	-10.515	10.165	14.063	1.00	0.00
ATOM	2146	1HD1	ILE	138	-8.769	6.446	14.924	1.00	0.00
ATOM	2147	2HD1	ILE	138	-10.180	6.235	15.962	1.00	0.00
ATOM	2148	3HD1	ILE	138	-8.560	5.968	16.608	1.00	0.00
ATOM	2149	N	HIS	139	-12.687	10.748	15.711	1.00	0.00
ATOM	2150	CA	HIS	139	-13.530	11.719	15.013	1.00	0.00
ATOM	2157	C	HIS	139	-13.799	12.953	15.867	1.00	0.00
ATOM	2158	O	HIS	139	-13.918	14.057	15.344	1.00	0.00
ATOM	2151	CB	HIS	139	-14.858	11.078	14.589	1.00	0.00
ATOM	2152	CG	HIS	139	-14.773	10.295	13.309	1.00	0.00
ATOM	2153	ND1	HIS	139	-14.990	10.848	12.068	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.486	8.991	13.086	1.00	0.00
ATOM	2155	CE1	HIS	139	-14.838	9.919	11.141	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.533	8.782	11.732	1.00	0.00
ATOM	2159	H	HIS	139	-13.051	9.852	15.914	1.00	0.00
ATOM	2160	HA	HIS	139	-12.999	12.029	14.126	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.595	11.855	14.455	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.190	10.406	15.366	1.00	0.00
ATOM	2163	HD1	HIS	139	-15.243	11.788	11.889	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.261	8.249	13.840	1.00	0.00
ATOM	2165	HE1	HIS	139	-14.928	10.067	10.077	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.595	7.900	11.302	1.00	0.00
ATOM	2167	N	SER	140	-13.910	12.762	17.174	1.00	0.00
ATOM	2168	CA	SER	140	-14.188	13.873	18.082	1.00	0.00
ATOM	2171	C	SER	140	-12.913	14.535	18.619	1.00	0.00
ATOM	2172	O	SER	140	-12.984	15.576	19.271	1.00	0.00
ATOM	2169	CB	SER	140	-15.044	13.376	19.249	1.00	0.00
ATOM	2170	OG	SER	140	-15.992	12.413	18.812	1.00	0.00
ATOM	2173	H	SER	140	-13.820	11.854	17.537	1.00	0.00
ATOM	2174	HA	SER	140	-14.753	14.610	17.532	1.00	0.00
ATOM	2175	1HB	SER	140	-15.573	14.210	19.686	1.00	0.00
ATOM	2176	2HB	SER	140	-14.407	12.921	19.993	1.00	0.00
ATOM	2177	HG	SER	140	-15.550	11.561	18.685	1.00	0.00
ATOM	2178	N	SER	141	-11.758	13.925	18.378	1.00	0.00
ATOM	2179	CA	SER	141	-10.500	14.471	18.882	1.00	0.00



ATOM	2182	C	SER	141	-9.832	15.413	17.887	1.00	0.00
ATOM	2183	O	SER	141	-9.357	16.485	18.259	1.00	0.00
ATOM	2180	CB	SER	141	-9.541	13.338	19.255	1.00	0.00
ATOM	2181	OG	SER	141	-9.111	13.456	20.601	1.00	0.00
ATOM	2184	H	SER	141	-11.754	13.081	17.880	1.00	0.00
ATOM	2185	HA	SER	141	-10.725	15.029	19.766	1.00	0.00
ATOM	2186	1HB	SER	141	-8.675	13.374	18.608	1.00	0.00
ATOM	2187	2HB	SER	141	-10.043	12.389	19.134	1.00	0.00
ATOM	2188	HG	SER	141	-8.282	13.943	20.630	1.00	0.00
ATOM	2189	N	GLY	142	-9.787	15.006	16.635	1.00	0.00
ATOM	2190	CA	GLY	142	-9.158	15.821	15.613	1.00	0.00
ATOM	2191	C	GLY	142	-9.177	15.128	14.278	1.00	0.00
ATOM	2192	O	GLY	142	-8.955	15.741	13.234	1.00	0.00
ATOM	2193	H	GLY	142	-10.175	14.141	16.400	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.133	16.011	15.895	1.00	0.00
ATOM	2195	2HA	GLY	142	-9.680	16.757	15.532	1.00	0.00
ATOM	2196	N	GLY	143	-9.451	13.839	14.318	1.00	0.00
ATOM	2197	CA	GLY	143	-9.503	13.059	13.107	1.00	0.00
ATOM	2198	C	GLY	143	-8.179	12.435	12.771	1.00	0.00
ATOM	2199	O	GLY	143	-7.146	12.818	13.319	1.00	0.00
ATOM	2200	H	GLY	143	-9.623	13.410	15.187	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.802	13.696	12.293	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.227	12.280	13.224	1.00	0.00
ATOM	2203	N	TRP	144	-8.205	11.481	11.856	1.00	0.00
ATOM	2204	CA	TRP	144	-6.993	10.806	11.430	1.00	0.00
ATOM	2215	C	TRP	144	-6.033	11.821	10.832	1.00	0.00
ATOM	2216	O	TRP	144	-4.815	11.674	10.930	1.00	0.00
ATOM	2205	CB	TRP	144	-7.334	9.704	10.424	1.00	0.00
ATOM	2206	CG	TRP	144	-8.032	8.531	11.055	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.381	8.304	11.122	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.408	7.429	11.722	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.631	7.127	11.795	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.434	6.572	12.168	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.080	7.085	11.986	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.170	5.393	12.860	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.821	5.914	12.671	1.00	0.00
ATOM	2214	CH2	TRP	144	-6.861	5.081	13.101	1.00	0.00
ATOM	2217	H	TRP	144	-9.058	11.231	11.449	1.00	0.00
ATOM	2218	HA	TRP	144	-6.532	10.364	12.302	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.422	9.347	9.968	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.981	10.109	9.660	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.131	8.964	10.709	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.523	6.742	11.976	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.263	7.713	11.662	1.00	0.00
ATOM	2224	HZ2	TRP	144	-8.960	4.739	13.197	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.795	5.626	12.880	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.610	4.174	13.634	1.00	0.00
ATOM	2227	N	ALA	145	-6.606	12.874	10.251	1.00	0.00
ATOM	2228	CA	ALA	145	-5.833	13.955	9.657	1.00	0.00
ATOM	2230	C	ALA	145	-4.971	14.655	10.709	1.00	0.00
ATOM	2231	O	ALA	145	-3.835	15.044	10.426	1.00	0.00
ATOM	2229	CB	ALA	145	-6.757	14.954	8.974	1.00	0.00
ATOM	2232	H	ALA	145	-7.582	12.933	10.240	1.00	0.00
ATOM	2233	HA	ALA	145	-5.187	13.526	8.905	1.00	0.00
ATOM	2234	1HB	ALA	145	-6.654	15.920	9.445	1.00	0.00
ATOM	2235	2HB	ALA	145	-7.779	14.618	9.060	1.00	0.00
ATOM	2236	3HB	ALA	145	-6.492	15.034	7.929	1.00	0.00
ATOM	2237	N	GLU	146	-5.500	14.799	11.930	1.00	0.00
ATOM	2238	CA	GLU	146	-4.742	15.438	13.007	1.00	0.00
ATOM	2244	C	GLU	146	-3.487	14.614	13.292	1.00	0.00
ATOM	2245	O	GLU	146	-2.388	15.148	13.459	1.00	0.00
ATOM	2239	CB	GLU	146	-5.612	15.595	14.271	1.00	0.00
ATOM	2240	CG	GLU	146	-4.832	15.571	15.578	1.00	0.00
ATOM	2241	CD	GLU	146	-5.563	16.255	16.720	1.00	0.00
ATOM	2242	OE1	GLU	146	-6.271	17.252	16.468	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.435	15.794	17.875	1.00	0.00
ATOM	2246	H	GLU	146	-6.410	14.454	12.113	1.00	0.00
ATOM	2247	HA	GLU	146	-4.440	16.418	12.660	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.345	14.800	14.298	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.131	16.537	14.213	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.887	16.071	15.426	1.00	0.00
ATOM	2251	2HG	GLU	146	-4.652	14.544	15.855	1.00	0.00
ATOM	2252	N	PHE	147	-3.666	13.301	13.299	1.00	0.00



ATOM	2253	CA	PHE	147	-2.575	12.365	13.522	1.00	0.00
ATOM	2261	C	PHE	147	-1.594	12.391	12.348	1.00	0.00
ATOM	2262	O	PHE	147	-0.386	12.221	12.535	1.00	0.00
ATOM	2254	CB	PHE	147	-3.151	10.959	13.718	1.00	0.00
ATOM	2255	CG	PHE	147	-2.129	9.899	14.002	1.00	0.00
ATOM	2256	CD1	PHE	147	-1.110	10.120	14.913	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.191	8.676	13.353	1.00	0.00
ATOM	2258	CE1	PHE	147	-0.171	9.143	15.170	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.254	7.696	13.606	1.00	0.00
ATOM	2260	CZ	PHE	147	-0.243	7.930	14.515	1.00	0.00
ATOM	2263	H	PHE	147	-4.565	12.949	13.127	1.00	0.00
ATOM	2264	HA	PHE	147	-2.048	12.663	14.423	1.00	0.00
ATOM	2265	LHB	PHE	147	-3.685	10.673	12.823	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.842	10.977	14.548	1.00	0.00
ATOM	2267	HD1	PHE	147	-2.982	8.495	12.640	1.00	0.00
ATOM	2268	HD2	PHE	147	-1.054	11.069	15.426	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.313	6.746	13.093	1.00	0.00
ATOM	2270	HE2	PHE	147	0.620	9.326	15.882	1.00	0.00
ATOM	2271	HZ	PHE	147	0.494	7.167	14.713	1.00	0.00
ATOM	2272	N	THR	148	-2.109	12.619	11.139	1.00	0.00
ATOM	2273	CA	THR	148	-1.256	12.677	9.951	1.00	0.00
ATOM	2277	C	THR	148	-0.327	13.882	10.003	1.00	0.00
ATOM	2278	O	THR	148	0.752	13.864	9.428	1.00	0.00
ATOM	2274	CB	THR	148	-2.072	12.726	8.647	1.00	0.00
ATOM	2275	OG1	THR	148	-3.332	12.081	8.827	1.00	0.00
ATOM	2276	CG2	THR	148	-1.316	12.050	7.514	1.00	0.00
ATOM	2279	H	THR	148	-3.079	12.759	11.047	1.00	0.00
ATOM	2280	HA	THR	148	-0.651	11.780	9.937	1.00	0.00
ATOM	2281	HB	THR	148	-2.239	13.756	8.382	1.00	0.00
ATOM	2282	HG1	THR	148	-3.371	11.675	9.700	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.041	12.787	6.774	1.00	0.00
ATOM	2284	2HG2	THR	148	-1.946	11.300	7.059	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.424	11.583	7.904	1.00	0.00
ATOM	2286	N	ALA	149	-0.740	14.921	10.709	1.00	0.00
ATOM	2287	CA	ALA	149	0.087	16.109	10.843	1.00	0.00
ATOM	2289	C	ALA	149	1.071	15.912	11.988	1.00	0.00
ATOM	2290	O	ALA	149	2.219	16.341	11.925	1.00	0.00
ATOM	2288	CB	ALA	149	-0.778	17.339	11.077	1.00	0.00
ATOM	2291	H	ALA	149	-1.611	14.883	11.163	1.00	0.00
ATOM	2292	HA	ALA	149	0.637	16.242	9.923	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.634	17.070	11.679	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.115	17.729	10.128	1.00	0.00
ATOM	2295	3HB	ALA	149	-0.200	18.093	11.591	1.00	0.00
ATOM	2296	N	LEU	150	0.598	15.246	13.031	1.00	0.00
ATOM	2297	CA	LEU	150	1.402	14.969	14.214	1.00	0.00
ATOM	2302	C	LEU	150	2.596	14.070	13.897	1.00	0.00
ATOM	2303	O	LEU	150	3.695	14.274	14.420	1.00	0.00
ATOM	2298	CB	LEU	150	0.530	14.301	15.276	1.00	0.00
ATOM	2299	CG	LEU	150	-0.063	15.243	16.321	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.477	14.819	16.683	1.00	0.00
ATOM	2301	CD2	LEU	150	0.812	15.282	17.563	1.00	0.00
ATOM	2304	H	LEU	150	-0.331	14.931	13.008	1.00	0.00
ATOM	2305	HA	LEU	150	1.764	15.910	14.600	1.00	0.00
ATOM	2306	1HB	LEU	150	1.117	13.560	15.784	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.277	13.800	14.773	1.00	0.00
ATOM	2308	HG	LEU	150	-0.106	16.239	15.912	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.448	13.871	17.199	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.064	14.722	15.782	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.923	15.565	17.323	1.00	0.00
ATOM	2312	1HD2	LEU	150	0.203	15.509	18.427	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.568	16.045	17.447	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.288	14.322	17.700	1.00	0.00
ATOM	2315	N	TYR	151	2.372	13.062	13.065	1.00	0.00
ATOM	2316	CA	TYR	151	3.425	12.119	12.713	1.00	0.00
ATOM	2325	C	TYR	151	3.654	12.061	11.206	1.00	0.00
ATOM	2326	O	TYR	151	4.090	11.038	10.683	1.00	0.00
ATOM	2317	CB	TYR	151	3.056	10.721	13.220	1.00	0.00
ATOM	2318	CG	TYR	151	3.723	10.339	14.522	1.00	0.00
ATOM	2319	CD1	TYR	151	5.054	9.943	14.554	1.00	0.00
ATOM	2320	CD2	TYR	151	3.020	10.369	15.720	1.00	0.00
ATOM	2321	CE1	TYR	151	5.666	9.590	15.741	1.00	0.00
ATOM	2322	CE2	TYR	151	3.624	10.017	16.911	1.00	0.00
ATOM	2323	CZ	TYR	151	4.948	9.629	16.917	1.00	0.00



ATOM	2324	OH	TYR	151	5.559	9.291	18.102	1.00	0.00
ATOM	2327	H	TYR	151	1.470	12.935	12.696	1.00	0.00
ATOM	2328	HA	TYR	151	4.336	12.438	13.195	1.00	0.00
ATOM	2329	1HB	TYR	151	3.340	9.992	12.475	1.00	0.00
ATOM	2330	2HB	TYR	151	1.989	10.673	13.371	1.00	0.00
ATOM	2331	HD1	TYR	151	5.616	9.914	13.632	1.00	0.00
ATOM	2332	HD2	TYR	151	1.983	10.673	15.711	1.00	0.00
ATOM	2333	HE1	TYR	151	6.702	9.286	15.745	1.00	0.00
ATOM	2334	HE2	TYR	151	3.060	10.048	17.833	1.00	0.00
ATOM	2335	HH	TYR	151	6.512	9.417	18.017	1.00	0.00
ATOM	2336	N	GLY	152	3.351	13.140	10.501	1.00	0.00
ATOM	2337	CA	GLY	152	3.532	13.127	9.065	1.00	0.00
ATOM	2338	C	GLY	152	4.353	14.282	8.537	1.00	0.00
ATOM	2339	O	GLY	152	5.378	14.650	9.111	1.00	0.00
ATOM	2340	H	GLY	152	2.989	13.935	10.946	1.00	0.00
ATOM	2341	1HA	GLY	152	2.559	13.153	8.597	1.00	0.00
ATOM	2342	2HA	GLY	152	4.021	12.206	8.789	1.00	0.00
ATOM	2343	N	ASP	153	3.896	14.821	7.417	1.00	0.00
ATOM	2344	CA	ASP	153	4.563	15.924	6.726	1.00	0.00
ATOM	2349	C	ASP	153	4.649	17.179	7.586	1.00	0.00
ATOM	2350	O	ASP	153	5.739	17.652	7.907	1.00	0.00
ATOM	2345	CB	ASP	153	3.809	16.242	5.435	1.00	0.00
ATOM	2346	CG	ASP	153	4.713	16.330	4.223	1.00	0.00
ATOM	2347	OD1	ASP	153	5.922	16.067	4.347	1.00	0.00
ATOM	2348	OD2	ASP	153	4.206	16.666	3.128	1.00	0.00
ATOM	2351	H	ASP	153	3.083	14.446	7.024	1.00	0.00
ATOM	2352	HA	ASP	153	5.562	15.604	6.475	1.00	0.00
ATOM	2353	1HB	ASP	153	3.299	17.188	5.549	1.00	0.00
ATOM	2354	2HB	ASP	153	3.079	15.467	5.255	1.00	0.00
ATOM	2355	N	GLY	154	3.493	17.724	7.946	1.00	0.00
ATOM	2356	CA	GLY	154	3.452	18.933	8.750	1.00	0.00
ATOM	2357	C	GLY	154	3.688	18.681	10.226	1.00	0.00
ATOM	2358	O	GLY	154	2.890	19.091	11.066	1.00	0.00
ATOM	2359	H	GLY	154	2.657	17.308	7.652	1.00	0.00
ATOM	2360	1HA	GLY	154	2.485	19.399	8.628	1.00	0.00
ATOM	2361	2HA	GLY	154	4.210	19.614	8.391	1.00	0.00
ATOM	2362	N	ALA	155	4.791	18.020	10.542	1.00	0.00
ATOM	2363	CA	ALA	155	5.143	17.724	11.920	1.00	0.00
ATOM	2365	C	ALA	155	5.865	18.910	12.542	1.00	0.00
ATOM	2366	O	ALA	155	7.067	18.855	12.809	1.00	0.00
ATOM	2364	CB	ALA	155	5.999	16.468	11.992	1.00	0.00
ATOM	2367	H	ALA	155	5.393	17.732	9.823	1.00	0.00
ATOM	2368	HA	ALA	155	4.228	17.543	12.468	1.00	0.00
ATOM	2369	1HB	ALA	155	6.981	16.723	12.362	1.00	0.00
ATOM	2370	2HB	ALA	155	6.087	16.037	11.006	1.00	0.00
ATOM	2371	3HB	ALA	155	5.538	15.754	12.658	1.00	0.00
ATOM	2372	N	LEU	156	5.124	19.989	12.750	1.00	0.00
ATOM	2373	CA	LEU	156	5.670	21.203	13.321	1.00	0.00
ATOM	2378	C	LEU	156	6.079	20.996	14.772	1.00	0.00
ATOM	2379	O	LEU	156	5.727	19.992	15.394	1.00	0.00
ATOM	2374	CB	LEU	156	4.656	22.342	13.217	1.00	0.00
ATOM	2375	CG	LEU	156	3.288	22.082	13.852	1.00	0.00
ATOM	2376	CD1	LEU	156	2.780	23.336	14.541	1.00	0.00
ATOM	2377	CD2	LEU	156	2.286	21.618	12.806	1.00	0.00
ATOM	2380	H	LEU	156	4.179	19.971	12.496	1.00	0.00
ATOM	2381	HA	LEU	156	6.548	21.467	12.750	1.00	0.00
ATOM	2382	1HB	LEU	156	4.507	22.566	12.175	1.00	0.00
ATOM	2383	2HB	LEU	156	5.083	23.204	13.689	1.00	0.00
ATOM	2384	HG	LEU	156	3.382	21.305	14.597	1.00	0.00
ATOM	2385	1HD1	LEU	156	1.728	23.229	14.755	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.932	24.188	13.894	1.00	0.00
ATOM	2387	3HD1	LEU	156	3.322	23.484	15.464	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.106	22.417	12.101	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.359	21.351	13.290	1.00	0.00
ATOM	2390	3HD2	LEU	156	2.681	20.760	12.285	1.00	0.00
ATOM	2391	N	GLU	157	6.829	21.957	15.297	1.00	0.00
ATOM	2392	CA	GLU	157	7.320	21.914	16.669	1.00	0.00
ATOM	2398	C	GLU	157	6.206	21.650	17.676	1.00	0.00
ATOM	2399	O	GLU	157	6.415	20.955	18.671	1.00	0.00
ATOM	2393	CB	GLU	157	8.027	23.221	17.002	1.00	0.00
ATOM	2394	CG	GLU	157	9.175	23.550	16.060	1.00	0.00
ATOM	2395	CD	GLU	157	10.315	22.550	16.144	1.00	0.00
ATOM	2396	OE1	GLU	157	10.193	21.550	16.883	1.00	0.00



ATOM	2397	OE2	GLU	157	11.345	22.761	15.473	1.00	0.00
ATOM	2400	H	GLU	157	7.074	22.722	14.737	1.00	0.00
ATOM	2401	HA	GLU	157	8.037	21.116	16.734	1.00	0.00
ATOM	2402	1HB	GLU	157	8.416	23.159	18.003	1.00	0.00
ATOM	2403	2HB	GLU	157	7.308	24.019	16.954	1.00	0.00
ATOM	2404	1HG	GLU	157	9.556	24.530	16.309	1.00	0.00
ATOM	2405	2HG	GLU	157	8.800	23.559	15.048	1.00	0.00
ATOM	2406	N	GLU	158	5.023	22.192	17.413	1.00	0.00
ATOM	2407	CA	GLU	158	3.892	21.992	18.309	1.00	0.00
ATOM	2413	C	GLU	158	3.483	20.527	18.324	1.00	0.00
ATOM	2414	O	GLU	158	3.313	19.931	19.382	1.00	0.00
ATOM	2408	CB	GLU	158	2.705	22.864	17.899	1.00	0.00
ATOM	2409	CG	GLU	158	2.680	24.218	18.587	1.00	0.00
ATOM	2410	CD	GLU	158	2.330	24.115	20.058	1.00	0.00
ATOM	2411	OE1	GLU	158	2.449	23.015	20.627	1.00	0.00
ATOM	2412	OE2	GLU	158	1.941	25.134	20.655	1.00	0.00
ATOM	2415	H	GLU	158	4.907	22.728	16.600	1.00	0.00
ATOM	2416	HA	GLU	158	4.207	22.274	19.303	1.00	0.00
ATOM	2417	1HB	GLU	158	1.792	22.343	18.146	1.00	0.00
ATOM	2418	2HB	GLU	158	2.742	23.025	16.832	1.00	0.00
ATOM	2419	1HG	GLU	158	1.946	24.842	18.099	1.00	0.00
ATOM	2420	2HG	GLU	158	3.655	24.671	18.496	1.00	0.00
ATOM	2421	N	ALA	159	3.348	19.949	17.139	1.00	0.00
ATOM	2422	CA	ALA	159	2.973	18.549	17.007	1.00	0.00
ATOM	2424	C	ALA	159	4.033	17.645	17.629	1.00	0.00
ATOM	2425	O	ALA	159	3.715	16.601	18.197	1.00	0.00
ATOM	2423	CB	ALA	159	2.764	18.194	15.543	1.00	0.00
ATOM	2426	H	ALA	159	3.515	20.474	16.332	1.00	0.00
ATOM	2427	HA	ALA	159	2.038	18.405	17.527	1.00	0.00
ATOM	2428	1HB	ALA	159	1.813	18.581	15.211	1.00	0.00
ATOM	2429	2HB	ALA	159	2.776	17.120	15.427	1.00	0.00
ATOM	2430	3HB	ALA	159	3.556	18.628	14.950	1.00	0.00
ATOM	2431	N	ARG	160	5.289	18.061	17.519	1.00	0.00
ATOM	2432	CA	ARG	160	6.410	17.305	18.067	1.00	0.00
ATOM	2440	C	ARG	160	6.263	17.127	19.576	1.00	0.00
ATOM	2441	O	ARG	160	6.247	16.000	20.081	1.00	0.00
ATOM	2433	CB	ARG	160	7.734	18.012	17.759	1.00	0.00
ATOM	2434	CG	ARG	160	8.095	18.035	16.281	1.00	0.00
ATOM	2435	CD	ARG	160	9.566	17.716	16.061	1.00	0.00
ATOM	2436	NE	ARG	160	10.381	18.923	15.916	1.00	0.00
ATOM	2437	CZ	ARG	160	11.568	18.953	15.311	1.00	0.00
ATOM	2438	NH1	ARG	160	12.073	17.852	14.766	1.00	0.00
ATOM	2439	NH2	ARG	160	12.242	20.092	15.235	1.00	0.00
ATOM	2442	H	ARG	160	5.467	18.907	17.054	1.00	0.00
ATOM	2443	HA	ARG	160	6.414	16.333	17.599	1.00	0.00
ATOM	2444	1HB	ARG	160	8.526	17.511	18.293	1.00	0.00
ATOM	2445	2HB	ARG	160	7.669	19.033	18.106	1.00	0.00
ATOM	2446	1HG	ARG	160	7.886	19.018	15.886	1.00	0.00
ATOM	2447	2HG	ARG	160	7.497	17.302	15.762	1.00	0.00
ATOM	2448	1HD	ARG	160	9.660	17.120	15.166	1.00	0.00
ATOM	2449	2HD	ARG	160	9.928	17.150	16.907	1.00	0.00
ATOM	2450	HE	ARG	160	10.025	19.765	16.301	1.00	0.00
ATOM	2451	1HH1	ARG	160	11.561	16.990	14.800	1.00	0.00
ATOM	2452	2HH1	ARG	160	12.976	17.875	14.324	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.853	20.937	15.630	1.00	0.00
ATOM	2454	2HH2	ARG	160	13.142	20.124	14.781	1.00	0.00
ATOM	2455	N	ARG	161	6.154	18.240	20.290	1.00	0.00
ATOM	2456	CA	ARG	161	6.014	18.196	21.741	1.00	0.00
ATOM	2464	C	ARG	161	4.647	17.656	22.146	1.00	0.00
ATOM	2465	O	ARG	161	4.495	17.079	23.221	1.00	0.00
ATOM	2457	CB	ARG	161	6.241	19.578	22.357	1.00	0.00
ATOM	2458	CG	ARG	161	5.349	20.667	21.787	1.00	0.00
ATOM	2459	CD	ARG	161	5.529	21.973	22.542	1.00	0.00
ATOM	2460	NE	ARG	161	4.347	22.831	22.462	1.00	0.00
ATOM	2461	CZ	ARG	161	3.964	23.670	23.422	1.00	0.00
ATOM	2462	NH1	ARG	161	4.632	23.723	24.570	1.00	0.00
ATOM	2463	NH2	ARG	161	2.908	24.449	23.231	1.00	0.00
ATOM	2466	H	ARG	161	6.172	19.110	19.832	1.00	0.00
ATOM	2467	HA	ARG	161	6.769	17.526	22.115	1.00	0.00
ATOM	2468	1HB	ARG	161	7.269	19.864	22.195	1.00	0.00
ATOM	2469	2HB	ARG	161	6.058	19.516	23.419	1.00	0.00
ATOM	2470	1HG	ARG	161	4.318	20.354	21.862	1.00	0.00
ATOM	2471	2HG	ARG	161	5.606	20.821	20.750	1.00	0.00



ATOM	2472	1HD	ARG	161	6.373	22.501	22.123	1.00	0.00
ATOM	2473	2HD	ARG	161	5.726	21.748	23.579	1.00	0.00
ATOM	2474	HE	ARG	161	3.806	22.787	21.627	1.00	0.00
ATOM	2475	1HH1	ARG	161	5.434	23.131	24.719	1.00	0.00
ATOM	2476	2HH1	ARG	161	4.334	24.351	25.298	1.00	0.00
ATOM	2477	1HH2	ARG	161	2.401	24.405	22.356	1.00	0.00
ATOM	2478	2HH2	ARG	161	2.606	25.080	23.946	1.00	0.00
ATOM	2479	N	LEU	162	3.656	17.848	21.286	1.00	0.00
ATOM	2480	CA	LEU	162	2.307	17.384	21.571	1.00	0.00
ATOM	2485	C	LEU	162	2.241	15.864	21.604	1.00	0.00
ATOM	2486	O	LEU	162	1.663	15.292	22.520	1.00	0.00
ATOM	2481	CB	LEU	162	1.316	17.928	20.537	1.00	0.00
ATOM	2482	CG	LEU	162	-0.158	17.654	20.841	1.00	0.00
ATOM	2483	CD1	LEU	162	-0.583	18.365	22.115	1.00	0.00
ATOM	2484	CD2	LEU	162	-1.029	18.081	19.669	1.00	0.00
ATOM	2487	H	LEU	162	3.834	18.321	20.445	1.00	0.00
ATOM	2488	HA	LEU	162	2.035	17.756	22.548	1.00	0.00
ATOM	2489	1HB	LEU	162	1.550	17.485	19.580	1.00	0.00
ATOM	2490	2HB	LEU	162	1.454	18.996	20.464	1.00	0.00
ATOM	2491	HG	LEU	162	-0.297	16.593	20.991	1.00	0.00
ATOM	2492	1HD1	LEU	162	-1.661	18.434	22.149	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.159	19.358	22.132	1.00	0.00
ATOM	2494	3HD1	LEU	162	-0.232	17.809	22.973	1.00	0.00
ATOM	2495	1HD2	LEU	162	-1.512	19.020	19.901	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.780	17.327	19.484	1.00	0.00
ATOM	2497	3HD2	LEU	162	-0.415	18.200	18.789	1.00	0.00
ATOM	2498	N	ARG	163	2.823	15.206	20.605	1.00	0.00
ATOM	2499	CA	ARG	163	2.791	13.747	20.562	1.00	0.00
ATOM	2507	C	ARG	163	3.664	13.141	21.657	1.00	0.00
ATOM	2508	O	ARG	163	3.333	12.087	22.198	1.00	0.00
ATOM	2500	CB	ARG	163	3.192	13.207	19.185	1.00	0.00
ATOM	2501	CG	ARG	163	4.530	13.704	18.673	1.00	0.00
ATOM	2502	CD	ARG	163	4.750	13.277	17.234	1.00	0.00
ATOM	2503	NE	ARG	163	6.061	12.659	17.046	1.00	0.00
ATOM	2504	CZ	ARG	163	6.801	12.793	15.948	1.00	0.00
ATOM	2505	NH1	ARG	163	6.374	13.536	14.932	1.00	0.00
ATOM	2506	NH2	ARG	163	7.961	12.157	15.857	1.00	0.00
ATOM	2509	H	ARG	163	3.271	15.710	19.885	1.00	0.00
ATOM	2510	HA	ARG	163	1.769	13.452	20.755	1.00	0.00
ATOM	2511	1HB	ARG	163	2.434	13.488	18.469	1.00	0.00
ATOM	2512	2HB	ARG	163	3.238	12.131	19.238	1.00	0.00
ATOM	2513	1HG	ARG	163	5.318	13.294	19.287	1.00	0.00
ATOM	2514	2HG	ARG	163	4.549	14.782	18.727	1.00	0.00
ATOM	2515	1HD	ARG	163	4.664	14.141	16.590	1.00	0.00
ATOM	2516	2HD	ARG	163	3.987	12.558	16.971	1.00	0.00
ATOM	2517	HE	ARG	163	6.402	12.096	17.779	1.00	0.00
ATOM	2518	1HH1	ARG	163	5.484	14.003	14.982	1.00	0.00
ATOM	2519	2HH1	ARG	163	6.939	13.632	14.109	1.00	0.00
ATOM	2520	1HH2	ARG	163	8.283	11.567	16.617	1.00	0.00
ATOM	2521	2HH2	ARG	163	8.527	12.254	15.026	1.00	0.00
ATOM	2522	N	GLU	164	4.763	13.810	21.999	1.00	0.00
ATOM	2523	CA	GLU	164	5.641	13.308	23.049	1.00	0.00
ATOM	2529	C	GLU	164	4.970	13.459	24.410	1.00	0.00
ATOM	2530	O	GLU	164	4.983	12.534	25.224	1.00	0.00
ATOM	2524	CB	GLU	164	6.995	14.017	23.025	1.00	0.00
ATOM	2525	CG	GLU	164	8.160	13.073	22.753	1.00	0.00
ATOM	2526	CD	GLU	164	9.311	13.259	23.720	1.00	0.00
ATOM	2527	OE1	GLU	164	9.321	14.264	24.459	1.00	0.00
ATOM	2528	OE2	GLU	164	10.219	12.400	23.735	1.00	0.00
ATOM	2531	H	GLU	164	4.980	14.656	21.546	1.00	0.00
ATOM	2532	HA	GLU	164	5.797	12.255	22.862	1.00	0.00
ATOM	2533	1HB	GLU	164	7.160	14.493	23.979	1.00	0.00
ATOM	2534	2HB	GLU	164	6.982	14.772	22.251	1.00	0.00
ATOM	2535	1HG	GLU	164	8.521	13.243	21.750	1.00	0.00
ATOM	2536	2HG	GLU	164	7.809	12.052	22.837	1.00	0.00
ATOM	2537	N	GLY	165	4.349	14.613	24.643	1.00	0.00
ATOM	2538	CA	GLY	165	3.655	14.827	25.899	1.00	0.00
ATOM	2539	C	GLY	165	2.407	13.970	25.975	1.00	0.00
ATOM	2540	O	GLY	165	1.945	13.603	27.059	1.00	0.00
ATOM	2541	H	GLY	165	4.341	15.315	23.952	1.00	0.00
ATOM	2542	1HA	GLY	165	3.377	15.867	25.978	1.00	0.00
ATOM	2543	2HA	GLY	165	4.313	14.571	26.717	1.00	0.00
ATOM	2544	N	ASN	166	1.880	13.648	24.801	1.00	0.00



ATOM	2545	CA	ASN	166	0.686	12.823	24.665	1.00	0.00
ATOM	2550	C	ASN	166	0.892	11.448	25.283	1.00	0.00
ATOM	2551	O	ASN	166	0.186	11.060	26.214	1.00	0.00
ATOM	2546	CB	ASN	166	0.346	12.662	23.181	1.00	0.00
ATOM	2547	CG	ASN	166	-1.082	12.222	22.942	1.00	0.00
ATOM	2548	OD1	ASN	166	-1.357	11.034	22.783	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.994	13.177	22.898	1.00	0.00
ATOM	2552	H	ASN	166	2.316	13.979	23.988	1.00	0.00
ATOM	2553	HA	ASN	166	-0.131	13.321	25.164	1.00	0.00
ATOM	2554	1HB	ASN	166	1.005	11.922	22.752	1.00	0.00
ATOM	2555	2HB	ASN	166	0.498	13.603	22.677	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.701	14.103	23.023	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.931	12.919	22.737	1.00	0.00
ATOM	2558	N	TRP	167	1.861	10.709	24.755	1.00	0.00
ATOM	2559	CA	TRP	167	2.145	9.372	25.245	1.00	0.00
ATOM	2570	C	TRP	167	2.749	9.407	26.640	1.00	0.00
ATOM	2571	O	TRP	167	2.659	8.428	27.370	1.00	0.00
ATOM	2560	CB	TRP	167	3.047	8.594	24.269	1.00	0.00
ATOM	2561	CG	TRP	167	4.503	8.972	24.300	1.00	0.00
ATOM	2562	CD1	TRP	167	5.128	9.879	23.494	1.00	0.00
ATOM	2563	CD2	TRP	167	5.522	8.436	25.159	1.00	0.00
ATOM	2564	NE1	TRP	167	6.464	9.950	23.807	1.00	0.00
ATOM	2565	CE2	TRP	167	6.730	9.075	24.825	1.00	0.00
ATOM	2566	CE3	TRP	167	5.527	7.483	26.183	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.927	8.792	25.475	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.718	7.203	26.827	1.00	0.00
ATOM	2569	CH2	TRP	167	7.903	7.855	26.471	1.00	0.00
ATOM	2572	H	TRP	167	2.389	11.070	24.013	1.00	0.00
ATOM	2573	HA	TRP	167	1.197	8.855	25.311	1.00	0.00
ATOM	2574	1HB	TRP	167	2.687	8.755	23.263	1.00	0.00
ATOM	2575	2HB	TRP	167	2.980	7.542	24.499	1.00	0.00
ATOM	2576	HD1	TRP	167	4.630	10.456	22.729	1.00	0.00
ATOM	2577	HE1	TRP	167	7.119	10.535	23.373	1.00	0.00
ATOM	2578	HE3	TRP	167	4.623	6.968	26.472	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.851	9.286	25.211	1.00	0.00
ATOM	2580	HZ3	TRP	167	6.740	6.468	27.619	1.00	0.00
ATOM	2581	HH2	TRP	167	8.810	7.604	27.000	1.00	0.00
ATOM	2582	N	ALA	168	3.351	10.533	27.010	1.00	0.00
ATOM	2583	CA	ALA	168	3.953	10.671	28.329	1.00	0.00
ATOM	2585	C	ALA	168	2.966	10.263	29.419	1.00	0.00
ATOM	2586	O	ALA	168	3.237	9.348	30.193	1.00	0.00
ATOM	2584	CB	ALA	168	4.443	12.094	28.554	1.00	0.00
ATOM	2587	H	ALA	168	3.389	11.288	26.382	1.00	0.00
ATOM	2588	HA	ALA	168	4.807	10.011	28.372	1.00	0.00
ATOM	2589	1HB	ALA	168	5.287	12.291	27.909	1.00	0.00
ATOM	2590	2HB	ALA	168	4.743	12.212	29.584	1.00	0.00
ATOM	2591	3HB	ALA	168	3.648	12.789	28.328	1.00	0.00
ATOM	2592	N	SER	169	1.823	10.938	29.463	1.00	0.00
ATOM	2593	CA	SER	169	0.786	10.643	30.449	1.00	0.00
ATOM	2596	C	SER	169	-0.205	9.571	29.964	1.00	0.00
ATOM	2597	O	SER	169	-0.872	8.927	30.773	1.00	0.00
ATOM	2594	CB	SER	169	0.023	11.922	30.803	1.00	0.00
ATOM	2595	OG	SER	169	0.728	12.697	31.758	1.00	0.00
ATOM	2598	H	SER	169	1.668	11.655	28.808	1.00	0.00
ATOM	2599	HA	SER	169	1.276	10.275	31.341	1.00	0.00
ATOM	2600	1HB	SER	169	-0.943	11.660	31.211	1.00	0.00
ATOM	2601	2HB	SER	169	-0.113	12.514	29.910	1.00	0.00
ATOM	2602	HG	SER	169	1.682	12.624	31.596	1.00	0.00
ATOM	2603	N	VAL	170	-0.341	9.407	28.650	1.00	0.00
ATOM	2604	CA	VAL	170	-1.304	8.448	28.108	1.00	0.00
ATOM	2608	C	VAL	170	-0.773	7.012	28.102	1.00	0.00
ATOM	2609	O	VAL	170	-1.542	6.055	28.208	1.00	0.00
ATOM	2605	CB	VAL	170	-1.782	8.862	26.692	1.00	0.00
ATOM	2606	CG1	VAL	170	-1.200	7.977	25.595	1.00	0.00
ATOM	2607	CG2	VAL	170	-3.301	8.855	26.638	1.00	0.00
ATOM	2610	H	VAL	170	0.188	9.962	28.036	1.00	0.00
ATOM	2611	HA	VAL	170	-2.167	8.474	28.757	1.00	0.00
ATOM	2612	HB	VAL	170	-1.451	9.873	26.511	1.00	0.00
ATOM	2613	1HG1	VAL	170	-1.095	8.552	24.686	1.00	0.00
ATOM	2614	2HG1	VAL	170	-1.860	7.141	25.417	1.00	0.00
ATOM	2615	3HG1	VAL	170	-0.232	7.612	25.904	1.00	0.00
ATOM	2616	1HG2	VAL	170	-3.672	7.938	27.072	1.00	0.00
ATOM	2617	2HG2	VAL	170	-3.626	8.922	25.610	1.00	0.00



ATOM	2618	3HG2	VAL	170	-3.685	9.698	27.192	1.00	0.00
ATOM	2619	N	ARG	171	0.531	6.848	27.991	1.00	0.00
ATOM	2620	CA	ARG	171	1.109	5.517	27.990	1.00	0.00
ATOM	2628	C	ARG	171	1.261	5.025	29.422	1.00	0.00
ATOM	2629	O	ARG	171	1.321	3.824	29.675	1.00	0.00
ATOM	2621	CB	ARG	171	2.457	5.515	27.264	1.00	0.00
ATOM	2622	CG	ARG	171	2.999	4.129	26.959	1.00	0.00
ATOM	2623	CD	ARG	171	3.992	4.164	25.808	1.00	0.00
ATOM	2624	NE	ARG	171	5.268	3.533	26.158	1.00	0.00
ATOM	2625	CZ	ARG	171	6.406	3.714	25.484	1.00	0.00
ATOM	2626	NH1	ARG	171	6.436	4.524	24.430	1.00	0.00
ATOM	2627	NH2	ARG	171	7.516	3.088	25.867	1.00	0.00
ATOM	2630	H	ARG	171	1.117	7.635	27.916	1.00	0.00
ATOM	2631	HA	ARG	171	0.426	4.861	27.469	1.00	0.00
ATOM	2632	1HB	ARG	171	3.181	6.036	27.873	1.00	0.00
ATOM	2633	2HB	ARG	171	2.343	6.045	26.325	1.00	0.00
ATOM	2634	1HG	ARG	171	2.176	3.481	26.693	1.00	0.00
ATOM	2635	2HG	ARG	171	3.494	3.745	27.837	1.00	0.00
ATOM	2636	1HD	ARG	171	4.171	5.195	25.536	1.00	0.00
ATOM	2637	2HD	ARG	171	3.562	3.644	24.964	1.00	0.00
ATOM	2638	HE	ARG	171	5.275	2.937	26.942	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.604	5.003	24.140	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.287	4.662	23.923	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.503	2.472	26.673	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.372	3.222	25.367	1.00	0.00
ATOM	2643	N	THR	172	1.307	5.968	30.355	1.00	0.00
ATOM	2644	CA	THR	172	1.443	5.649	31.766	1.00	0.00
ATOM	2648	C	THR	172	0.098	5.319	32.398	1.00	0.00
ATOM	2649	O	THR	172	-0.003	4.372	33.177	1.00	0.00
ATOM	2645	CB	THR	172	2.081	6.819	32.529	1.00	0.00
ATOM	2646	OG1	THR	172	1.807	8.035	31.836	1.00	0.00
ATOM	2647	CG2	THR	172	3.585	6.627	32.667	1.00	0.00
ATOM	2650	H	THR	172	1.242	6.909	30.089	1.00	0.00
ATOM	2651	HA	THR	172	2.090	4.790	31.854	1.00	0.00
ATOM	2652	HB	THR	172	1.644	6.872	33.514	1.00	0.00
ATOM	2653	HG1	THR	172	2.621	8.372	31.434	1.00	0.00
ATOM	2654	1HG2	THR	172	3.850	6.596	33.714	1.00	0.00
ATOM	2655	2HG2	THR	172	4.098	7.448	32.189	1.00	0.00
ATOM	2656	3HG2	THR	172	3.874	5.698	32.197	1.00	0.00
ATOM	2657	N	VAL	173	-0.934	6.100	32.072	1.00	0.00
ATOM	2658	CA	VAL	173	-2.262	5.865	32.638	1.00	0.00
ATOM	2662	C	VAL	173	-2.749	4.451	32.316	1.00	0.00
ATOM	2663	O	VAL	173	-3.379	3.792	33.142	1.00	0.00
ATOM	2659	CB	VAL	173	-3.292	6.918	32.159	1.00	0.00
ATOM	2660	CG1	VAL	173	-3.510	6.860	30.655	1.00	0.00
ATOM	2661	CG2	VAL	173	-4.611	6.757	32.902	1.00	0.00
ATOM	2664	H	VAL	173	-0.797	6.855	31.446	1.00	0.00
ATOM	2665	HA	VAL	173	-2.171	5.954	33.713	1.00	0.00
ATOM	2666	HB	VAL	173	-2.897	7.890	32.393	1.00	0.00
ATOM	2667	1HG1	VAL	173	-2.558	6.738	30.158	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.974	7.777	30.323	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.151	6.024	30.416	1.00	0.00
ATOM	2670	1HG2	VAL	173	-4.775	5.712	33.120	1.00	0.00
ATOM	2671	2HG2	VAL	173	-5.418	7.127	32.286	1.00	0.00
ATOM	2672	3HG2	VAL	173	-4.575	7.317	33.824	1.00	0.00
ATOM	2673	N	LEU	174	-2.428	3.982	31.123	1.00	0.00
ATOM	2674	CA	LEU	174	-2.813	2.643	30.706	1.00	0.00
ATOM	2679	C	LEU	174	-1.580	1.747	30.609	1.00	0.00
ATOM	2680	O	LEU	174	-1.479	0.893	29.726	1.00	0.00
ATOM	2675	CB	LEU	174	-3.556	2.687	29.367	1.00	0.00
ATOM	2676	CG	LEU	174	-4.338	3.974	29.110	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.273	4.355	27.642	1.00	0.00
ATOM	2678	CD2	LEU	174	-5.781	3.825	29.562	1.00	0.00
ATOM	2681	H	LEU	174	-1.910	4.550	30.516	1.00	0.00
ATOM	2682	HA	LEU	174	-3.473	2.242	31.462	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.248	1.860	29.337	1.00	0.00
ATOM	2684	2HB	LEU	174	-2.834	2.561	28.574	1.00	0.00
ATOM	2685	HG	LEU	174	-3.888	4.773	29.684	1.00	0.00
ATOM	2686	1HD1	LEU	174	-3.288	4.139	27.257	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.479	5.409	27.535	1.00	0.00
ATOM	2688	3HD1	LEU	174	-5.007	3.787	27.091	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.100	4.731	30.056	1.00	0.00
ATOM	2690	2HD2	LEU	174	-5.859	2.994	30.249	1.00	0.00



ATOM	2691	3HD2	LEU	174	-6.409	3.642	28.703	1.00	0.00
ATOM	2692	N	THR	175	-0.634	1.952	31.517	1.00	0.00
ATOM	2693	CA	THR	175	0.595	1.164	31.529	1.00	0.00
ATOM	2697	C	THR	175	0.354	-0.221	32.132	1.00	0.00
ATOM	2698	O	THR	175	1.221	-1.090	32.067	1.00	0.00
ATOM	2694	CB	THR	175	1.729	1.883	32.305	1.00	0.00
ATOM	2695	OG1	THR	175	3.009	1.396	31.875	1.00	0.00
ATOM	2696	CG2	THR	175	1.592	1.685	33.810	1.00	0.00
ATOM	2699	H	THR	175	-0.760	2.657	32.194	1.00	0.00
ATOM	2700	HA	THR	175	0.916	1.042	30.504	1.00	0.00
ATOM	2701	HB	THR	175	1.670	2.942	32.095	1.00	0.00
ATOM	2702	HG1	THR	175	2.978	0.433	31.815	1.00	0.00
ATOM	2703	1HG2	THR	175	0.738	1.058	34.013	1.00	0.00
ATOM	2704	2HG2	THR	175	1.457	2.644	34.289	1.00	0.00
ATOM	2705	3HG2	THR	175	2.486	1.215	34.193	1.00	0.00
ATOM	2706	N	GLY	176	-0.824	-0.418	32.716	1.00	0.00
ATOM	2707	CA	GLY	176	-1.148	-1.697	33.326	1.00	0.00
ATOM	2708	C	GLY	176	-1.836	-2.647	32.365	1.00	0.00
ATOM	2709	O	GLY	176	-2.286	-3.718	32.764	1.00	0.00
ATOM	2710	H	GLY	176	-1.476	0.310	32.738	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.798	-1.525	34.172	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.236	-2.158	33.675	1.00	0.00
ATOM	2713	N	ALA	177	-1.910	-2.257	31.099	1.00	0.00
ATOM	2714	CA	ALA	177	-2.548	-3.075	30.065	1.00	0.00
ATOM	2716	C	ALA	177	-1.626	-4.190	29.566	1.00	0.00
ATOM	2717	O	ALA	177	-1.763	-4.664	28.440	1.00	0.00
ATOM	2715	CB	ALA	177	-2.975	-2.189	28.906	1.00	0.00
ATOM	2718	H	ALA	177	-1.526	-1.393	30.848	1.00	0.00
ATOM	2719	HA	ALA	177	-3.439	-3.525	30.485	1.00	0.00
ATOM	2720	1HB	ALA	177	-3.165	-2.802	28.038	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.191	-1.481	28.684	1.00	0.00
ATOM	2722	3HB	ALA	177	-3.876	-1.657	29.175	1.00	0.00
ATOM	2723	N	VAL	178	-0.689	-4.611	30.406	1.00	0.00
ATOM	2724	CA	VAL	178	0.238	-5.680	30.048	1.00	0.00
ATOM	2728	C	VAL	178	-0.362	-7.045	30.386	1.00	0.00
ATOM	2729	O	VAL	178	0.265	-7.862	31.061	1.00	0.00
ATOM	2725	CB	VAL	178	1.600	-5.532	30.763	1.00	0.00
ATOM	2726	CG1	VAL	178	2.723	-6.083	29.897	1.00	0.00
ATOM	2727	CG2	VAL	178	1.872	-4.080	31.126	1.00	0.00
ATOM	2730	H	VAL	178	-0.631	-4.206	31.295	1.00	0.00
ATOM	2731	HA	VAL	178	0.408	-5.629	28.981	1.00	0.00
ATOM	2732	HB	VAL	178	1.566	-6.108	31.677	1.00	0.00
ATOM	2733	1HG1	VAL	178	3.484	-5.329	29.771	1.00	0.00
ATOM	2734	2HG1	VAL	178	2.328	-6.362	28.931	1.00	0.00
ATOM	2735	3HG1	VAL	178	3.152	-6.952	30.375	1.00	0.00
ATOM	2736	1HG2	VAL	178	1.592	-3.908	32.156	1.00	0.00
ATOM	2737	2HG2	VAL	178	1.292	-3.434	30.484	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.922	-3.868	30.999	1.00	0.00
ATOM	2739	N	ALA	179	-1.586	-7.277	29.930	1.00	0.00
ATOM	2740	CA	ALA	179	-2.280	-8.532	30.199	1.00	0.00
ATOM	2742	C	ALA	179	-1.893	-9.614	29.197	1.00	0.00
ATOM	2743	O	ALA	179	-2.353	-10.752	29.290	1.00	0.00
ATOM	2741	CB	ALA	179	-3.786	-8.315	30.187	1.00	0.00
ATOM	2744	H	ALA	179	-2.042	-6.579	29.409	1.00	0.00
ATOM	2745	HA	ALA	179	-2.000	-8.860	31.189	1.00	0.00
ATOM	2746	1HB	ALA	179	-4.271	-9.182	29.763	1.00	0.00
ATOM	2747	2HB	ALA	179	-4.019	-7.445	29.591	1.00	0.00
ATOM	2748	3HB	ALA	179	-4.136	-8.164	31.197	1.00	0.00
ATOM	2749	N	LEU	180	-1.046	-9.262	28.242	1.00	0.00
ATOM	2750	CA	LEU	180	-0.606	-10.219	27.240	1.00	0.00
ATOM	2755	C	LEU	180	0.604	-10.997	27.747	1.00	0.00
ATOM	2756	O	LEU	180	0.801	-12.161	27.391	1.00	0.00
ATOM	2751	CB	LEU	180	-0.266	-9.513	25.926	1.00	0.00
ATOM	2752	CG	LEU	180	-1.316	-8.527	25.415	1.00	0.00
ATOM	2753	CD1	LEU	180	-0.727	-7.630	24.338	1.00	0.00
ATOM	2754	CD2	LEU	180	-2.531	-9.268	24.882	1.00	0.00
ATOM	2757	H	LEU	180	-0.704	-8.344	28.214	1.00	0.00
ATOM	2758	HA	LEU	180	-1.416	-10.912	27.067	1.00	0.00
ATOM	2759	1HB	LEU	180	-0.117	-10.269	25.170	1.00	0.00
ATOM	2760	2HB	LEU	180	0.663	-8.978	26.062	1.00	0.00
ATOM	2761	HG	LEU	180	-1.639	-7.900	26.233	1.00	0.00
ATOM	2762	1HD1	LEU	180	0.333	-7.508	24.509	1.00	0.00
ATOM	2763	2HD1	LEU	180	-1.210	-6.665	24.370	1.00	0.00



ATOM	2764	3HD1	LEU	180	-0.884	-8.079	23.368	1.00	0.00
ATOM	2765	1HD2	LEU	180	-3.080	-9.698	25.707	1.00	0.00
ATOM	2766	2HD2	LEU	180	-2.208	-10.055	24.217	1.00	0.00
ATOM	2767	3HD2	LEU	180	-3.168	-8.580	24.345	1.00	0.00
ATOM	2768	N	GLY	181	1.404	-10.344	28.581	1.00	0.00
ATOM	2769	CA	GLY	181	2.582	-10.973	29.141	1.00	0.00
ATOM	2770	C	GLY	181	2.229	-11.914	30.273	1.00	0.00
ATOM	2771	O	GLY	181	2.147	-11.501	31.429	1.00	0.00
ATOM	2772	H	GLY	181	1.189	-9.418	28.824	1.00	0.00
ATOM	2773	1HA	GLY	181	3.245	-10.208	29.517	1.00	0.00
ATOM	2774	2HA	GLY	181	3.086	-11.528	28.366	1.00	0.00
ATOM	2775	N	ALA	182	2.006	-13.175	29.936	1.00	0.00
ATOM	2776	CA	ALA	182	1.642	-14.177	30.927	1.00	0.00
ATOM	2778	C	ALA	182	2.862	-14.684	31.688	1.00	0.00
ATOM	2779	O	ALA	182	3.907	-14.966	31.099	1.00	0.00
ATOM	2777	CB	ALA	182	0.912	-15.334	30.258	1.00	0.00
ATOM	2780	H	ALA	182	2.080	-13.439	28.994	1.00	0.00
ATOM	2781	HA	ALA	182	0.961	-13.715	31.628	1.00	0.00
ATOM	2782	1HB	ALA	182	1.630	-15.987	29.783	1.00	0.00
ATOM	2783	2HB	ALA	182	0.228	-14.949	29.516	1.00	0.00
ATOM	2784	3HB	ALA	182	0.360	-15.888	31.002	1.00	0.00
ATOM	2785	N	LEU	183	2.713	-14.809	32.999	1.00	0.00
ATOM	2790	CA	LEU	183	3.784	-15.295	33.857	1.00	0.00
ATOM	2791	C	LEU	183	3.319	-16.526	34.619	1.00	0.00
ATOM	2792	O	LEU	183	2.130	-16.890	34.484	1.00	0.00
ATOM	2786	CB	LEU	183	4.217	-14.205	34.841	1.00	0.00
ATOM	2787	CG	LEU	183	5.400	-13.354	34.386	1.00	0.00
ATOM	2788	CD1	LEU	183	5.022	-11.883	34.384	1.00	0.00
ATOM	2789	CD2	LEU	183	6.602	-13.594	35.284	1.00	0.00
ATOM	2793	OXT	LEU	183	4.137	-17.122	35.343	1.00	0.00
ATOM	2794	H	LEU	183	1.852	-14.578	33.404	1.00	0.00
ATOM	2795	HA	LEU	183	4.622	-15.561	33.231	1.00	0.00
ATOM	2796	1HB	LEU	183	4.484	-14.678	35.775	1.00	0.00
ATOM	2797	2HB	LEU	183	3.376	-13.550	35.018	1.00	0.00
ATOM	2798	HG	LEU	183	5.671	-13.633	33.378	1.00	0.00
ATOM	2799	1HD1	LEU	183	5.847	-11.299	34.764	1.00	0.00
ATOM	2800	2HD1	LEU	183	4.157	-11.735	35.011	1.00	0.00
ATOM	2801	3HD1	LEU	183	4.795	-11.571	33.375	1.00	0.00
ATOM	2802	1HD2	LEU	183	7.479	-13.151	34.839	1.00	0.00
ATOM	2803	2HD2	LEU	183	6.756	-14.657	35.402	1.00	0.00
ATOM	2804	3HD2	LEU	183	6.423	-13.147	36.250	1.00	0.00
ENDMDL									
MODEL									
	18								
ATOM	3	N	GLY	-4	-24.868	18.813	-17.397	1.00	0.00
ATOM	4	CA	GLY	-4	-23.770	19.772	-17.138	1.00	0.00
ATOM	1	C	GLY	-4	-23.294	20.454	-18.405	1.00	0.00
ATOM	2	O	GLY	-4	-23.058	19.788	-19.412	1.00	0.00
ATOM	5	1HA	GLY	-4	-24.117	20.524	-16.446	1.00	0.00
ATOM	6	2HA	GLY	-4	-22.940	19.242	-16.691	1.00	0.00
ATOM	7	1HT	GLY	-4	-24.998	18.688	-18.426	1.00	0.00
ATOM	8	2HT	GLY	-4	-25.757	19.172	-16.987	1.00	0.00
ATOM	9	3HT	GLY	-4	-24.649	17.891	-16.971	1.00	0.00
ATOM	10	N	PRO	-3	-23.147	21.789	-18.388	1.00	0.00
ATOM	11	CA	PRO	-3	-22.694	22.553	-19.554	1.00	0.00
ATOM	15	C	PRO	-3	-21.230	22.274	-19.877	1.00	0.00
ATOM	16	O	PRO	-3	-20.373	22.352	-18.993	1.00	0.00
ATOM	12	CB	PRO	-3	-22.881	24.021	-19.135	1.00	0.00
ATOM	13	CG	PRO	-3	-23.700	23.983	-17.889	1.00	0.00
ATOM	14	CD	PRO	-3	-23.411	22.661	-17.238	1.00	0.00
ATOM	17	HA	PRO	-3	-23.298	22.343	-20.424	1.00	0.00
ATOM	18	1HB	PRO	-3	-23.390	24.558	-19.922	1.00	0.00
ATOM	19	2HB	PRO	-3	-21.915	24.471	-18.957	1.00	0.00
ATOM	20	1HG	PRO	-3	-24.749	24.055	-18.137	1.00	0.00
ATOM	21	2HG	PRO	-3	-23.413	24.792	-17.234	1.00	0.00
ATOM	22	1HD	PRO	-3	-24.269	22.317	-16.681	1.00	0.00
ATOM	23	2HD	PRO	-3	-22.544	22.735	-16.597	1.00	0.00
ATOM	24	N	LEU	-2	-20.966	21.931	-21.142	1.00	0.00
ATOM	25	CA	LEU	-2	-19.616	21.614	-21.629	1.00	0.00
ATOM	30	C	LEU	-2	-19.156	20.246	-21.126	1.00	0.00
ATOM	31	O	LEU	-2	-18.793	19.374	-21.915	1.00	0.00
ATOM	26	CB	LEU	-2	-18.605	22.696	-21.227	1.00	0.00
ATOM	27	CG	LEU	-2	-18.559	23.916	-22.148	1.00	0.00
ATOM	28	CD1	LEU	-2	-18.812	25.191	-21.358	1.00	0.00



ATOM	29	CD2	LEU	-2	-17.221	23.992	-22.867	1.00	0.00
ATOM	32	H	LEU	-2	-21.711	21.878	-21.775	1.00	0.00
ATOM	33	HA	LEU	-2	-19.666	21.574	-22.707	1.00	0.00
ATOM	34	1HB	LEU	-2	-17.621	22.251	-21.207	1.00	0.00
ATOM	35	2HB	LEU	-2	-18.849	23.033	-20.231	1.00	0.00
ATOM	36	HG	LEU	-2	-19.336	23.825	-22.893	1.00	0.00
ATOM	37	1HD1	LEU	-2	-19.383	24.958	-20.472	1.00	0.00
ATOM	38	2HD1	LEU	-2	-19.366	25.889	-21.970	1.00	0.00
ATOM	39	3HD1	LEU	-2	-17.868	25.631	-21.073	1.00	0.00
ATOM	40	1HD2	LEU	-2	-17.310	24.641	-23.725	1.00	0.00
ATOM	41	2HD2	LEU	-2	-16.929	23.005	-23.190	1.00	0.00
ATOM	42	3HD2	LEU	-2	-16.474	24.388	-22.193	1.00	0.00
ATOM	43	N	GLY	-1	-19.184	20.063	-19.817	1.00	0.00
ATOM	44	CA	GLY	-1	-18.780	18.809	-19.227	1.00	0.00
ATOM	45	C	GLY	-1	-19.353	18.633	-17.839	1.00	0.00
ATOM	46	O	GLY	-1	-20.230	19.391	-17.421	1.00	0.00
ATOM	47	H	GLY	-1	-19.494	20.796	-19.237	1.00	0.00
ATOM	48	1HA	GLY	-1	-17.702	18.779	-19.168	1.00	0.00
ATOM	49	2HA	GLY	-1	-19.121	17.999	-19.855	1.00	0.00
ATOM	50	N	SER	0	-18.860	17.638	-17.121	1.00	0.00
ATOM	51	CA	SER	0	-19.318	17.363	-15.768	1.00	0.00
ATOM	54	C	SER	0	-18.196	16.714	-14.965	1.00	0.00
ATOM	55	O	SER	0	-17.409	15.937	-15.507	1.00	0.00
ATOM	52	CB	SER	0	-20.559	16.468	-15.796	1.00	0.00
ATOM	53	OG	SER	0	-21.612	17.097	-16.513	1.00	0.00
ATOM	56	H	SER	0	-18.162	17.068	-17.510	1.00	0.00
ATOM	57	HA	SER	0	-19.574	18.306	-15.308	1.00	0.00
ATOM	58	1HB	SER	0	-20.889	16.279	-14.784	1.00	0.00
ATOM	59	2HB	SER	0	-20.318	15.532	-16.280	1.00	0.00
ATOM	60	HG	SER	0	-21.260	17.869	-16.974	1.00	0.00
ATOM	61	N	MET	1	-18.113	17.051	-13.686	1.00	0.00
ATOM	62	CA	MET	1	-17.074	16.512	-12.818	1.00	0.00
ATOM	67	C	MET	1	-17.529	15.215	-12.163	1.00	0.00
ATOM	68	O	MET	1	-18.721	15.011	-11.928	1.00	0.00
ATOM	63	CB	MET	1	-16.700	17.533	-11.739	1.00	0.00
ATOM	64	CG	MET	1	-15.598	18.490	-12.161	1.00	0.00
ATOM	65	SD	MET	1	-16.183	20.186	-12.354	1.00	0.00
ATOM	66	CE	MET	1	-14.851	20.890	-13.327	1.00	0.00
ATOM	69	H	MET	1	-18.761	17.686	-13.315	1.00	0.00
ATOM	70	HA	MET	1	-16.205	16.310	-13.426	1.00	0.00
ATOM	71	1HB	MET	1	-16.368	17.003	-10.859	1.00	0.00
ATOM	72	2HB	MET	1	-17.576	18.113	-11.490	1.00	0.00
ATOM	73	1HG	MET	1	-15.190	18.156	-13.104	1.00	0.00
ATOM	74	2HG	MET	1	-14.822	18.478	-11.411	1.00	0.00
ATOM	75	1HE	MET	1	-15.148	21.862	-13.693	1.00	0.00
ATOM	76	2HE	MET	1	-14.635	20.240	-14.162	1.00	0.00
ATOM	77	3HE	MET	1	-13.969	20.991	-12.711	1.00	0.00
ATOM	78	N	ALA	2	-16.574	14.346	-11.866	1.00	0.00
ATOM	79	CA	ALA	2	-16.869	13.071	-11.233	1.00	0.00
ATOM	81	C	ALA	2	-16.312	13.036	-9.816	1.00	0.00
ATOM	82	O	ALA	2	-15.189	13.478	-9.570	1.00	0.00
ATOM	80	CB	ALA	2	-16.304	11.924	-12.056	1.00	0.00
ATOM	83	H	ALA	2	-15.643	14.568	-12.073	1.00	0.00
ATOM	84	HA	ALA	2	-17.944	12.960	-11.191	1.00	0.00
ATOM	85	1HB	ALA	2	-15.623	11.346	-11.448	1.00	0.00
ATOM	86	2HB	ALA	2	-15.777	12.322	-12.911	1.00	0.00
ATOM	87	3HB	ALA	2	-17.112	11.292	-12.392	1.00	0.00
ATOM	88	N	THR	3	-17.102	12.520	-8.891	1.00	0.00
ATOM	89	CA	THR	3	-16.696	12.431	-7.501	1.00	0.00
ATOM	93	C	THR	3	-16.198	11.026	-7.166	1.00	0.00
ATOM	94	O	THR	3	-16.854	10.036	-7.492	1.00	0.00
ATOM	90	CB	THR	3	-17.858	12.823	-6.558	1.00	0.00
ATOM	91	OG1	THR	3	-18.729	11.702	-6.337	1.00	0.00
ATOM	92	CG2	THR	3	-18.673	13.967	-7.146	1.00	0.00
ATOM	95	H	THR	3	-17.988	12.190	-9.146	1.00	0.00
ATOM	96	HA	THR	3	-15.887	13.131	-7.348	1.00	0.00
ATOM	97	HB	THR	3	-17.445	13.145	-5.619	1.00	0.00
ATOM	98	HG1	THR	3	-18.369	10.921	-6.779	1.00	0.00
ATOM	99	1HG2	THR	3	-19.644	13.999	-6.672	1.00	0.00
ATOM	100	2HG2	THR	3	-18.795	13.811	-8.207	1.00	0.00
ATOM	101	3HG2	THR	3	-18.158	14.899	-6.976	1.00	0.00
ATOM	102	N	PRO	4	-15.024	10.922	-6.520	1.00	0.00
ATOM	103	CA	PRO	4	-14.429	9.632	-6.147	1.00	0.00



ATOM	107	C	PRO	4	-15.241	8.906	-5.074	1.00	0.00
ATOM	108	O	PRO	4	-15.116	9.191	-3.885	1.00	0.00
ATOM	104	CB	PRO	4	-13.041	10.008	-5.602	1.00	0.00
ATOM	105	CG	PRO	4	-12.816	11.422	-6.023	1.00	0.00
ATOM	106	CD	PRO	4	-14.175	12.048	-6.110	1.00	0.00
ATOM	109	HA	PRO	4	-14.316	8.987	-7.006	1.00	0.00
ATOM	110	1HB	PRO	4	-12.297	9.349	-6.024	1.00	0.00
ATOM	111	2HB	PRO	4	-13.040	9.914	-4.525	1.00	0.00
ATOM	112	1HG	PRO	4	-12.328	11.447	-6.987	1.00	0.00
ATOM	113	2HG	PRO	4	-12.214	11.933	-5.285	1.00	0.00
ATOM	114	1HD	PRO	4	-14.185	12.832	-6.854	1.00	0.00
ATOM	115	2HD	PRO	4	-14.478	12.433	-5.148	1.00	0.00
ATOM	116	N	ALA	5	-16.077	7.966	-5.502	1.00	0.00
ATOM	117	CA	ALA	5	-16.912	7.204	-4.580	1.00	0.00
ATOM	119	C	ALA	5	-16.185	5.956	-4.076	1.00	0.00
ATOM	120	O	ALA	5	-16.768	4.874	-3.987	1.00	0.00
ATOM	118	CB	ALA	5	-18.222	6.824	-5.255	1.00	0.00
ATOM	121	H	ALA	5	-16.138	7.783	-6.463	1.00	0.00
ATOM	122	HA	ALA	5	-17.140	7.840	-3.736	1.00	0.00
ATOM	123	1HB	ALA	5	-18.394	5.765	-5.136	1.00	0.00
ATOM	124	2HB	ALA	5	-18.167	7.065	-6.307	1.00	0.00
ATOM	125	3HB	ALA	5	-19.034	7.374	-4.802	1.00	0.00
ATOM	126	N	SER	6	-14.911	6.111	-3.748	1.00	0.00
ATOM	127	CA	SER	6	-14.098	5.010	-3.250	1.00	0.00
ATOM	130	C	SER	6	-12.906	5.554	-2.469	1.00	0.00
ATOM	131	O	SER	6	-12.136	6.364	-2.983	1.00	0.00
ATOM	128	CB	SER	6	-13.618	4.131	-4.411	1.00	0.00
ATOM	129	OG	SER	6	-14.694	3.390	-4.966	1.00	0.00
ATOM	132	H	SER	6	-14.501	6.999	-3.837	1.00	0.00
ATOM	133	HA	SER	6	-14.711	4.417	-2.587	1.00	0.00
ATOM	134	1HB	SER	6	-12.868	3.440	-4.051	1.00	0.00
ATOM	135	2HB	SER	6	-13.191	4.755	-5.182	1.00	0.00
ATOM	136	HG	SER	6	-15.532	3.795	-4.692	1.00	0.00
ATOM	137	N	ALA	7	-12.774	5.116	-1.223	1.00	0.00
ATOM	138	CA	ALA	7	-11.690	5.562	-0.362	1.00	0.00
ATOM	140	C	ALA	7	-11.327	4.472	0.641	1.00	0.00
ATOM	141	O	ALA	7	-12.187	3.688	1.046	1.00	0.00
ATOM	139	CB	ALA	7	-12.086	6.842	0.363	1.00	0.00
ATOM	142	H	ALA	7	-13.427	4.479	-0.868	1.00	0.00
ATOM	143	HA	ALA	7	-10.830	5.774	-0.981	1.00	0.00
ATOM	144	1HB	ALA	7	-12.195	6.639	1.419	1.00	0.00
ATOM	145	2HB	ALA	7	-13.025	7.203	-0.031	1.00	0.00
ATOM	146	3HB	ALA	7	-11.322	7.590	0.218	1.00	0.00
ATOM	147	N	PRO	8	-10.050	4.408	1.049	1.00	0.00
ATOM	148	CA	PRO	8	-9.567	3.413	2.011	1.00	0.00
ATOM	152	C	PRO	8	-10.085	3.678	3.419	1.00	0.00
ATOM	153	O	PRO	8	-9.652	4.622	4.084	1.00	0.00
ATOM	149	CB	PRO	8	-8.036	3.566	1.969	1.00	0.00
ATOM	150	CG	PRO	8	-7.749	4.440	0.794	1.00	0.00
ATOM	151	CD	PRO	8	-8.965	5.297	0.611	1.00	0.00
ATOM	154	HA	PRO	8	-9.839	2.405	1.720	1.00	0.00
ATOM	155	1HB	PRO	8	-7.580	2.594	1.855	1.00	0.00
ATOM	156	2HB	PRO	8	-7.695	4.020	2.888	1.00	0.00
ATOM	157	1HG	PRO	8	-7.581	3.834	-0.085	1.00	0.00
ATOM	158	2HG	PRO	8	-6.884	5.057	0.996	1.00	0.00
ATOM	159	1HD	PRO	8	-9.085	5.571	-0.426	1.00	0.00
ATOM	160	2HD	PRO	8	-8.907	6.177	1.236	1.00	0.00
ATOM	161	N	ASP	9	-11.007	2.839	3.867	1.00	0.00
ATOM	162	CA	ASP	9	-11.579	2.971	5.199	1.00	0.00
ATOM	167	C	ASP	9	-10.623	2.371	6.226	1.00	0.00
ATOM	168	O	ASP	9	-9.531	1.917	5.878	1.00	0.00
ATOM	163	CB	ASP	9	-12.942	2.268	5.276	1.00	0.00
ATOM	164	CG	ASP	9	-13.868	2.874	6.322	1.00	0.00
ATOM	165	OD1	ASP	9	-13.644	2.633	7.529	1.00	0.00
ATOM	166	OD2	ASP	9	-14.824	3.582	5.938	1.00	0.00
ATOM	169	H	ASP	9	-11.308	2.105	3.285	1.00	0.00
ATOM	170	HA	ASP	9	-11.706	4.022	5.407	1.00	0.00
ATOM	171	1HB	ASP	9	-12.787	1.227	5.521	1.00	0.00
ATOM	172	2HB	ASP	9	-13.428	2.336	4.314	1.00	0.00
ATOM	173	N	THR	10	-11.042	2.356	7.478	1.00	0.00
ATOM	174	CA	THR	10	-10.244	1.807	8.560	1.00	0.00
ATOM	178	C	THR	10	-9.888	0.345	8.300	1.00	0.00
ATOM	179	O	THR	10	-8.817	-0.114	8.688	1.00	0.00



ATOM	175	CB	THR	10	-10.993	1.921	9.904	1.00	0.00
ATOM	176	OG1	THR	10	-12.092	2.839	9.775	1.00	0.00
ATOM	177	CG2	THR	10	-10.059	2.402	11.006	1.00	0.00
ATOM	180	H	THR	10	-11.930	2.721	7.682	1.00	0.00
ATOM	181	HA	THR	10	-9.331	2.384	8.628	1.00	0.00
ATOM	182	HB	THR	10	-11.374	0.946	10.173	1.00	0.00
ATOM	183	HG1	THR	10	-12.722	2.512	9.111	1.00	0.00
ATOM	184	1HG2	THR	10	-10.043	3.481	11.019	1.00	0.00
ATOM	185	2HG2	THR	10	-9.061	2.029	10.822	1.00	0.00
ATOM	186	3HG2	THR	10	-10.409	2.035	11.960	1.00	0.00
ATOM	187	N	ARG	11	-10.779	-0.375	7.625	1.00	0.00
ATOM	188	CA	ARG	11	-10.533	-1.775	7.309	1.00	0.00
ATOM	196	C	ARG	11	-9.400	-1.900	6.298	1.00	0.00
ATOM	197	O	ARG	11	-8.621	-2.850	6.350	1.00	0.00
ATOM	189	CB	ARG	11	-11.811	-2.459	6.804	1.00	0.00
ATOM	190	CG	ARG	11	-12.138	-2.181	5.346	1.00	0.00
ATOM	191	CD	ARG	11	-13.035	-3.262	4.765	1.00	0.00
ATOM	192	NE	ARG	11	-12.517	-3.787	3.503	1.00	0.00
ATOM	193	CZ	ARG	11	-13.187	-3.751	2.350	1.00	0.00
ATOM	194	NH1	ARG	11	-14.392	-3.196	2.292	1.00	0.00
ATOM	195	NH2	ARG	11	-12.645	-4.260	1.254	1.00	0.00
ATOM	198	H	ARG	11	-11.613	0.049	7.328	1.00	0.00
ATOM	199	HA	ARG	11	-10.215	-2.260	8.222	1.00	0.00
ATOM	200	1HB	ARG	11	-12.643	-2.123	7.406	1.00	0.00
ATOM	201	2HB	ARG	11	-11.702	-3.526	6.924	1.00	0.00
ATOM	202	1HG	ARG	11	-11.217	-2.145	4.782	1.00	0.00
ATOM	203	2HG	ARG	11	-12.645	-1.230	5.276	1.00	0.00
ATOM	204	1HD	ARG	11	-14.017	-2.844	4.596	1.00	0.00
ATOM	205	2HD	ARG	11	-13.106	-4.071	5.477	1.00	0.00
ATOM	206	HE	ARG	11	-11.623	-4.194	3.516	1.00	0.00
ATOM	207	1HH1	ARG	11	-14.803	-2.795	3.112	1.00	0.00
ATOM	208	2HH1	ARG	11	-14.902	-3.182	1.424	1.00	0.00
ATOM	209	1HH2	ARG	11	-11.726	-4.677	1.286	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.144	-4.218	0.377	1.00	0.00
ATOM	211	N	ALA	12	-9.281	-0.922	5.406	1.00	0.00
ATOM	212	CA	ALA	12	-8.210	-0.931	4.431	1.00	0.00
ATOM	214	C	ALA	12	-6.921	-0.495	5.107	1.00	0.00
ATOM	215	O	ALA	12	-5.873	-1.098	4.915	1.00	0.00
ATOM	213	CB	ALA	12	-8.540	-0.022	3.256	1.00	0.00
ATOM	216	H	ALA	12	-9.906	-0.164	5.424	1.00	0.00
ATOM	217	HA	ALA	12	-8.094	-1.942	4.064	1.00	0.00
ATOM	218	1HB	ALA	12	-8.857	-0.621	2.416	1.00	0.00
ATOM	219	2HB	ALA	12	-7.662	0.545	2.983	1.00	0.00
ATOM	220	3HB	ALA	12	-9.332	0.655	3.537	1.00	0.00
ATOM	221	N	LEU	13	-7.020	0.548	5.925	1.00	0.00
ATOM	222	CA	LEU	13	-5.867	1.069	6.650	1.00	0.00
ATOM	227	C	LEU	13	-5.291	0.021	7.609	1.00	0.00
ATOM	228	O	LEU	13	-4.072	-0.150	7.687	1.00	0.00
ATOM	223	CB	LEU	13	-6.255	2.347	7.403	1.00	0.00
ATOM	224	CG	LEU	13	-5.457	2.640	8.672	1.00	0.00
ATOM	225	CD1	LEU	13	-4.133	3.305	8.325	1.00	0.00
ATOM	226	CD2	LEU	13	-6.269	3.515	9.614	1.00	0.00
ATOM	229	H	LEU	13	-7.901	0.979	6.051	1.00	0.00
ATOM	230	HA	LEU	13	-5.111	1.315	5.922	1.00	0.00
ATOM	231	1HB	LEU	13	-7.299	2.277	7.670	1.00	0.00
ATOM	232	2HB	LEU	13	-6.130	3.183	6.727	1.00	0.00
ATOM	233	HG	LEU	13	-5.241	1.709	9.176	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.348	2.883	8.935	1.00	0.00
ATOM	235	2HD1	LEU	13	-4.204	4.366	8.511	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.908	3.137	7.282	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.863	4.516	9.618	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.223	3.105	10.614	1.00	0.00
ATOM	239	3HD2	LEU	13	-7.296	3.544	9.284	1.00	0.00
ATOM	240	N	VAL	14	-6.161	-0.682	8.331	1.00	0.00
ATOM	241	CA	VAL	14	-5.709	-1.707	9.269	1.00	0.00
ATOM	245	C	VAL	14	-5.057	-2.868	8.520	1.00	0.00
ATOM	246	O	VAL	14	-4.056	-3.430	8.974	1.00	0.00
ATOM	242	CB	VAL	14	-6.858	-2.223	10.180	1.00	0.00
ATOM	243	CG1	VAL	14	-7.773	-3.199	9.452	1.00	0.00
ATOM	244	CG2	VAL	14	-6.294	-2.863	11.441	1.00	0.00
ATOM	247	H	VAL	14	-7.123	-0.509	8.232	1.00	0.00
ATOM	248	HA	VAL	14	-4.960	-1.251	9.904	1.00	0.00
ATOM	249	HB	VAL	14	-7.455	-1.375	10.480	1.00	0.00



ATOM	250	1HG1	VAL	14	-7.180	-3.984	9.008	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.316	-2.675	8.680	1.00	0.00
ATOM	252	3HG1	VAL	14	-8.472	-3.629	10.155	1.00	0.00
ATOM	253	1HG2	VAL	14	-5.502	-3.547	11.174	1.00	0.00
ATOM	254	2HG2	VAL	14	-7.077	-3.402	11.954	1.00	0.00
ATOM	255	3HG2	VAL	14	-5.901	-2.094	12.091	1.00	0.00
ATOM	256	N	ALA	15	-5.610	-3.212	7.360	1.00	0.00
ATOM	257	CA	ALA	15	-5.063	-4.288	6.549	1.00	0.00
ATOM	259	C	ALA	15	-3.730	-3.872	5.944	1.00	0.00
ATOM	260	O	ALA	15	-2.836	-4.696	5.755	1.00	0.00
ATOM	258	CB	ALA	15	-6.043	-4.684	5.455	1.00	0.00
ATOM	261	H	ALA	15	-6.401	-2.720	7.039	1.00	0.00
ATOM	262	HA	ALA	15	-4.906	-5.144	7.189	1.00	0.00
ATOM	263	1HB	ALA	15	-7.052	-4.482	5.785	1.00	0.00
ATOM	264	2HB	ALA	15	-5.939	-5.738	5.241	1.00	0.00
ATOM	265	3HB	ALA	15	-5.835	-4.113	4.562	1.00	0.00
ATOM	266	N	ASP	16	-3.611	-2.587	5.644	1.00	0.00
ATOM	267	CA	ASP	16	-2.409	-2.032	5.055	1.00	0.00
ATOM	272	C	ASP	16	-1.265	-2.017	6.059	1.00	0.00
ATOM	273	O	ASP	16	-0.178	-2.518	5.776	1.00	0.00
ATOM	268	CB	ASP	16	-2.685	-0.615	4.575	1.00	0.00
ATOM	269	CG	ASP	16	-3.355	-0.564	3.215	1.00	0.00
ATOM	270	OD1	ASP	16	-3.381	-1.597	2.513	1.00	0.00
ATOM	271	OD2	ASP	16	-3.858	0.522	2.853	1.00	0.00
ATOM	274	H	ASP	16	-4.367	-1.984	5.813	1.00	0.00
ATOM	275	HA	ASP	16	-2.132	-2.644	4.212	1.00	0.00
ATOM	276	1HB	ASP	16	-1.757	-0.081	4.519	1.00	0.00
ATOM	277	2HB	ASP	16	-3.331	-0.123	5.287	1.00	0.00
ATOM	278	N	PHE	17	-1.517	-1.440	7.234	1.00	0.00
ATOM	279	CA	PHE	17	-0.502	-1.362	8.286	1.00	0.00
ATOM	287	C	PHE	17	-0.010	-2.749	8.673	1.00	0.00
ATOM	288	O	PHE	17	1.193	-3.014	8.659	1.00	0.00
ATOM	280	CB	PHE	17	-1.038	-0.636	9.525	1.00	0.00
ATOM	281	CG	PHE	17	0.052	-0.053	10.381	1.00	0.00
ATOM	282	CD1	PHE	17	1.035	0.754	9.830	1.00	0.00
ATOM	283	CD2	PHE	17	0.097	-0.326	11.738	1.00	0.00
ATOM	284	CE1	PHE	17	2.042	1.279	10.621	1.00	0.00
ATOM	285	CE2	PHE	17	1.101	0.194	12.532	1.00	0.00
ATOM	286	CZ	PHE	17	2.074	0.997	11.974	1.00	0.00
ATOM	289	H	PHE	17	-2.408	-1.059	7.395	1.00	0.00
ATOM	290	HA	PHE	17	0.332	-0.802	7.891	1.00	0.00
ATOM	291	1HB	PHE	17	-1.601	-1.330	10.133	1.00	0.00
ATOM	292	2HB	PHE	17	-1.684	0.171	9.212	1.00	0.00
ATOM	293	HD1	PHE	17	-0.663	-0.955	12.177	1.00	0.00
ATOM	294	HD2	PHE	17	1.011	0.975	8.773	1.00	0.00
ATOM	295	HE1	PHE	17	1.124	-0.028	13.588	1.00	0.00
ATOM	296	HE2	PHE	17	2.802	1.907	10.182	1.00	0.00
ATOM	297	HZ	PHE	17	2.859	1.405	12.594	1.00	0.00
ATOM	298	N	VAL	18	-0.943	-3.634	9.002	1.00	0.00
ATOM	299	CA	VAL	18	-0.596	-4.999	9.377	1.00	0.00
ATOM	303	C	VAL	18	0.041	-5.712	8.189	1.00	0.00
ATOM	304	O	VAL	18	1.023	-6.435	8.343	1.00	0.00
ATOM	300	CB	VAL	18	-1.837	-5.782	9.863	1.00	0.00
ATOM	301	CG1	VAL	18	-1.508	-7.248	10.095	1.00	0.00
ATOM	302	CG2	VAL	18	-2.396	-5.157	11.132	1.00	0.00
ATOM	305	H	VAL	18	-1.889	-3.366	8.985	1.00	0.00
ATOM	306	HA	VAL	18	0.126	-4.955	10.187	1.00	0.00
ATOM	307	HB	VAL	18	-2.596	-5.724	9.097	1.00	0.00
ATOM	308	1HG1	VAL	18	-2.040	-7.854	9.376	1.00	0.00
ATOM	309	2HG1	VAL	18	-1.806	-7.531	11.094	1.00	0.00
ATOM	310	3HG1	VAL	18	-0.445	-7.402	9.980	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.703	-4.141	10.928	1.00	0.00
ATOM	312	2HG2	VAL	18	-1.635	-5.155	11.899	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.246	-5.728	11.471	1.00	0.00
ATOM	314	N	GLY	19	-0.505	-5.479	7.001	1.00	0.00
ATOM	315	CA	GLY	19	0.035	-6.082	5.802	1.00	0.00
ATOM	316	C	GLY	19	1.483	-5.702	5.587	1.00	0.00
ATOM	317	O	GLY	19	2.329	-6.563	5.401	1.00	0.00
ATOM	318	H	GLY	19	-1.276	-4.873	6.936	1.00	0.00
ATOM	319	1HA	GLY	19	-0.542	-5.753	4.950	1.00	0.00
ATOM	320	2HA	GLY	19	-0.038	-7.157	5.883	1.00	0.00
ATOM	321	N	TYR	20	1.760	-4.407	5.622	1.00	0.00
ATOM	322	CA	TYR	20	3.113	-3.885	5.439	1.00	0.00



ATOM	331	C	TYR	20	4.043	-4.389	6.534	1.00	0.00
ATOM	332	O	TYR	20	5.204	-4.704	6.279	1.00	0.00
ATOM	323	CB	TYR	20	3.071	-2.351	5.445	1.00	0.00
ATOM	324	CG	TYR	20	4.406	-1.680	5.205	1.00	0.00
ATOM	325	CD1	TYR	20	5.239	-2.084	4.169	1.00	0.00
ATOM	326	CD2	TYR	20	4.825	-0.630	6.011	1.00	0.00
ATOM	327	CE1	TYR	20	6.451	-1.461	3.945	1.00	0.00
ATOM	328	CE2	TYR	20	6.037	-0.003	5.795	1.00	0.00
ATOM	329	CZ	TYR	20	6.845	-0.421	4.760	1.00	0.00
ATOM	330	OH	TYR	20	8.049	0.204	4.540	1.00	0.00
ATOM	333	H	TYR	20	1.027	-3.770	5.776	1.00	0.00
ATOM	334	HA	TYR	20	3.478	-4.226	4.482	1.00	0.00
ATOM	335	1HB	TYR	20	2.699	-2.016	6.402	1.00	0.00
ATOM	336	2HB	TYR	20	2.395	-2.020	4.671	1.00	0.00
ATOM	337	HD1	TYR	20	4.927	-2.899	3.533	1.00	0.00
ATOM	338	HD2	TYR	20	4.190	-0.303	6.822	1.00	0.00
ATOM	339	HE1	TYR	20	7.085	-1.789	3.134	1.00	0.00
ATOM	340	HE2	TYR	20	6.345	0.812	6.433	1.00	0.00
ATOM	341	HH	TYR	20	7.901	1.159	4.446	1.00	0.00
ATOM	342	N	LYS	21	3.522	-4.459	7.748	1.00	0.00
ATOM	343	CA	LYS	21	4.286	-4.917	8.898	1.00	0.00
ATOM	349	C	LYS	21	4.648	-6.389	8.763	1.00	0.00
ATOM	350	O	LYS	21	5.775	-6.789	9.046	1.00	0.00
ATOM	344	CB	LYS	21	3.479	-4.690	10.180	1.00	0.00
ATOM	345	CG	LYS	21	3.929	-3.481	10.987	1.00	0.00
ATOM	346	CD	LYS	21	5.415	-3.526	11.294	1.00	0.00
ATOM	347	CE	LYS	21	5.981	-2.128	11.484	1.00	0.00
ATOM	348	NZ	LYS	21	7.443	-2.152	11.763	1.00	0.00
ATOM	351	H	LYS	21	2.589	-4.191	7.877	1.00	0.00
ATOM	352	HA	LYS	21	5.196	-4.338	8.947	1.00	0.00
ATOM	353	1HB	LYS	21	3.555	-5.566	10.804	1.00	0.00
ATOM	354	2HB	LYS	21	2.443	-4.544	9.910	1.00	0.00
ATOM	355	1HG	LYS	21	3.380	-3.459	11.917	1.00	0.00
ATOM	356	2HG	LYS	21	3.719	-2.586	10.423	1.00	0.00
ATOM	357	1HD	LYS	21	5.928	-4.005	10.474	1.00	0.00
ATOM	358	2HD	LYS	21	5.570	-4.093	12.201	1.00	0.00
ATOM	359	1HE	LYS	21	5.472	-1.657	12.314	1.00	0.00
ATOM	360	2HE	LYS	21	5.802	-1.555	10.584	1.00	0.00
ATOM	361	1HZ	LYS	21	7.867	-1.229	11.548	1.00	0.00
ATOM	362	2HZ	LYS	21	7.912	-2.879	11.182	1.00	0.00
ATOM	363	3HZ	LYS	21	7.611	-2.366	12.777	1.00	0.00
ATOM	364	N	LEU	22	3.686	-7.187	8.333	1.00	0.00
ATOM	365	CA	LEU	22	3.894	-8.617	8.164	1.00	0.00
ATOM	370	C	LEU	22	4.702	-8.893	6.908	1.00	0.00
ATOM	371	O	LEU	22	5.642	-9.677	6.925	1.00	0.00
ATOM	366	CB	LEU	22	2.548	-9.346	8.081	1.00	0.00
ATOM	367	CG	LEU	22	1.941	-9.789	9.418	1.00	0.00
ATOM	368	CD1	LEU	22	1.870	-8.627	10.394	1.00	0.00
ATOM	369	CD2	LEU	22	0.560	-10.379	9.192	1.00	0.00
ATOM	372	H	LEU	22	2.805	-6.804	8.128	1.00	0.00
ATOM	373	HA	LEU	22	4.439	-8.981	9.022	1.00	0.00
ATOM	374	1HB	LEU	22	2.680	-10.224	7.467	1.00	0.00
ATOM	375	2HB	LEU	22	1.841	-8.692	7.592	1.00	0.00
ATOM	376	HG	LEU	22	2.565	-10.554	9.860	1.00	0.00
ATOM	377	1HD1	LEU	22	2.473	-7.810	10.025	1.00	0.00
ATOM	378	2HD1	LEU	22	2.243	-8.943	11.357	1.00	0.00
ATOM	379	3HD1	LEU	22	0.846	-8.303	10.493	1.00	0.00
ATOM	380	1HD2	LEU	22	0.650	-11.307	8.648	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.041	-9.685	8.624	1.00	0.00
ATOM	382	3HD2	LEU	22	0.088	-10.565	10.146	1.00	0.00
ATOM	383	N	ARG	23	4.320	-8.243	5.818	1.00	0.00
ATOM	384	CA	ARG	23	4.987	-8.412	4.530	1.00	0.00
ATOM	392	C	ARG	23	6.451	-7.971	4.594	1.00	0.00
ATOM	393	O	ARG	23	7.264	-8.392	3.775	1.00	0.00
ATOM	385	CB	ARG	23	4.217	-7.636	3.448	1.00	0.00
ATOM	386	CG	ARG	23	4.667	-7.910	2.026	1.00	0.00
ATOM	387	CD	ARG	23	4.405	-6.705	1.137	1.00	0.00
ATOM	388	NE	ARG	23	5.405	-5.656	1.337	1.00	0.00
ATOM	389	CZ	ARG	23	6.060	-5.045	0.345	1.00	0.00
ATOM	390	NH1	ARG	23	5.777	-5.323	-0.919	1.00	0.00
ATOM	391	NH2	ARG	23	6.986	-4.131	0.620	1.00	0.00
ATOM	394	H	ARG	23	3.551	-7.630	5.876	1.00	0.00
ATOM	395	HA	ARG	23	4.959	-9.464	4.286	1.00	0.00



ATOM	396	1HB	ARG	23	4.320	-6.580	3.631	1.00	0.00
ATOM	397	2HB	ARG	23	3.173	-7.896	3.519	1.00	0.00
ATOM	398	1HG	ARG	23	4.123	-8.760	1.639	1.00	0.00
ATOM	399	2HG	ARG	23	5.725	-8.124	2.026	1.00	0.00
ATOM	400	1HD	ARG	23	3.420	-6.303	1.369	1.00	0.00
ATOM	401	2HD	ARG	23	4.429	-7.021	0.104	1.00	0.00
ATOM	402	HE	ARG	23	5.612	-5.405	2.263	1.00	0.00
ATOM	403	1HH1	ARG	23	5.056	-5.999	-1.150	1.00	0.00
ATOM	404	2HH1	ARG	23	6.282	-4.863	-1.661	1.00	0.00
ATOM	405	1HH2	ARG	23	7.198	-3.895	1.568	1.00	0.00
ATOM	406	2HH2	ARG	23	7.476	-3.671	-0.130	1.00	0.00
ATOM	407	N	GLN	24	6.792	-7.136	5.573	1.00	0.00
ATOM	408	CA	GLN	24	8.169	-6.677	5.716	1.00	0.00
ATOM	414	C	GLN	24	9.004	-7.667	6.533	1.00	0.00
ATOM	415	O	GLN	24	10.226	-7.713	6.388	1.00	0.00
ATOM	409	CB	GLN	24	8.220	-5.271	6.322	1.00	0.00
ATOM	410	CG	GLN	24	8.195	-5.253	7.833	1.00	0.00
ATOM	411	CD	GLN	24	7.898	-3.877	8.406	1.00	0.00
ATOM	412	OE1	GLN	24	8.449	-3.480	9.435	1.00	0.00
ATOM	413	NE2	GLN	24	7.015	-3.142	7.751	1.00	0.00
ATOM	416	H	GLN	24	6.109	-6.829	6.214	1.00	0.00
ATOM	417	HA	GLN	24	8.590	-6.631	4.730	1.00	0.00
ATOM	418	1HB	GLN	24	7.370	-4.708	5.964	1.00	0.00
ATOM	419	2HB	GLN	24	9.126	-4.782	5.995	1.00	0.00
ATOM	420	1HG	GLN	24	9.156	-5.582	8.190	1.00	0.00
ATOM	421	2HG	GLN	24	7.434	-5.940	8.166	1.00	0.00
ATOM	422	1HE2	GLN	24	6.599	-3.524	6.945	1.00	0.00
ATOM	423	2HE2	GLN	24	6.818	-2.246	8.088	1.00	0.00
ATOM	424	N	LYS	25	8.350	-8.468	7.376	1.00	0.00
ATOM	425	CA	LYS	25	9.064	-9.454	8.190	1.00	0.00
ATOM	431	C	LYS	25	8.134	-10.577	8.652	1.00	0.00
ATOM	432	O	LYS	25	7.729	-10.630	9.815	1.00	0.00
ATOM	426	CB	LYS	25	9.739	-8.788	9.407	1.00	0.00
ATOM	427	CG	LYS	25	8.878	-7.761	10.138	1.00	0.00
ATOM	428	CD	LYS	25	9.739	-6.729	10.860	1.00	0.00
ATOM	429	CE	LYS	25	9.042	-6.174	12.096	1.00	0.00
ATOM	430	NZ	LYS	25	10.013	-5.744	13.141	1.00	0.00
ATOM	433	H	LYS	25	7.371	-8.404	7.446	1.00	0.00
ATOM	434	HA	LYS	25	9.833	-9.888	7.567	1.00	0.00
ATOM	435	1HB	LYS	25	10.639	-8.293	9.072	1.00	0.00
ATOM	436	2HB	LYS	25	10.008	-9.558	10.112	1.00	0.00
ATOM	437	1HG	LYS	25	8.260	-8.273	10.861	1.00	0.00
ATOM	438	2HG	LYS	25	8.251	-7.254	9.419	1.00	0.00
ATOM	439	1HD	LYS	25	9.950	-5.916	10.182	1.00	0.00
ATOM	440	2HD	LYS	25	10.663	-7.197	11.163	1.00	0.00
ATOM	441	1HE	LYS	25	8.400	-6.941	12.506	1.00	0.00
ATOM	442	2HE	LYS	25	8.442	-5.324	11.805	1.00	0.00
ATOM	443	1HZ	LYS	25	9.985	-6.405	13.949	1.00	0.00
ATOM	444	2HZ	LYS	25	9.779	-4.783	13.486	1.00	0.00
ATOM	445	3HZ	LYS	25	10.983	-5.733	12.752	1.00	0.00
ATOM	446	N	GLY	26	7.802	-11.476	7.734	1.00	0.00
ATOM	447	CA	GLY	26	6.927	-12.586	8.066	1.00	0.00
ATOM	448	C	GLY	26	6.107	-13.056	6.883	1.00	0.00
ATOM	449	O	GLY	26	6.383	-14.098	6.291	1.00	0.00
ATOM	450	H	GLY	26	8.151	-11.383	6.824	1.00	0.00
ATOM	451	1HA	GLY	26	6.254	-12.273	8.851	1.00	0.00
ATOM	452	2HA	GLY	26	7.522	-13.410	8.427	1.00	0.00
ATOM	453	N	TYR	27	5.102	-12.275	6.537	1.00	0.00
ATOM	454	CA	TYR	27	4.220	-12.586	5.422	1.00	0.00
ATOM	463	C	TYR	27	4.813	-12.071	4.112	1.00	0.00
ATOM	464	O	TYR	27	4.196	-11.273	3.409	1.00	0.00
ATOM	455	CB	TYR	27	2.840	-11.965	5.673	1.00	0.00
ATOM	456	CG	TYR	27	1.706	-12.611	4.903	1.00	0.00
ATOM	457	CD1	TYR	27	1.688	-13.978	4.655	1.00	0.00
ATOM	458	CD2	TYR	27	0.648	-11.845	4.432	1.00	0.00
ATOM	459	CE1	TYR	27	0.648	-14.562	3.955	1.00	0.00
ATOM	460	CE2	TYR	27	-0.394	-12.419	3.733	1.00	0.00
ATOM	461	CZ	TYR	27	-0.391	-13.776	3.497	1.00	0.00
ATOM	462	OH	TYR	27	-1.428	-14.349	2.798	1.00	0.00
ATOM	465	H	TYR	27	4.951	-11.450	7.049	1.00	0.00
ATOM	466	HA	TYR	27	4.120	-13.659	5.365	1.00	0.00
ATOM	467	1HB	TYR	27	2.872	-10.920	5.400	1.00	0.00
ATOM	468	2HB	TYR	27	2.608	-12.045	6.725	1.00	0.00



ATOM	469	HD1	TYR	27	2.504	-14.589	5.015	1.00	0.00
ATOM	470	HD2	TYR	27	0.649	-10.781	4.620	1.00	0.00
ATOM	471	HE1	TYR	27	0.650	-15.625	3.770	1.00	0.00
ATOM	472	HE2	TYR	27	-1.207	-11.804	3.375	1.00	0.00
ATOM	473	HH	TYR	27	-2.116	-14.636	3.420	1.00	0.00
ATOM	474	N	VAL	28	6.015	-12.533	3.791	1.00	0.00
ATOM	475	CA	VAL	28	6.692	-12.115	2.568	1.00	0.00
ATOM	479	C	VAL	28	6.119	-12.859	1.370	1.00	0.00
ATOM	480	O	VAL	28	6.012	-12.316	0.273	1.00	0.00
ATOM	476	CB	VAL	28	8.217	-12.362	2.642	1.00	0.00
ATOM	477	CG1	VAL	28	8.950	-11.528	1.601	1.00	0.00
ATOM	478	CG2	VAL	28	8.747	-12.061	4.038	1.00	0.00
ATOM	481	H	VAL	28	6.459	-13.169	4.395	1.00	0.00
ATOM	482	HA	VAL	28	6.522	-11.058	2.437	1.00	0.00
ATOM	483	HB	VAL	28	8.402	-13.404	2.429	1.00	0.00
ATOM	484	1HG1	VAL	28	9.245	-10.585	2.038	1.00	0.00
ATOM	485	2HG1	VAL	28	8.296	-11.345	0.761	1.00	0.00
ATOM	486	3HG1	VAL	28	9.828	-12.059	1.266	1.00	0.00
ATOM	487	1HG2	VAL	28	8.501	-11.043	4.305	1.00	0.00
ATOM	488	2HG2	VAL	28	9.819	-12.188	4.051	1.00	0.00
ATOM	489	3HG2	VAL	28	8.296	-12.738	4.748	1.00	0.00
ATOM	490	N	CYS	29	5.726	-14.104	1.603	1.00	0.00
ATOM	491	CA	CYS	29	5.136	-14.931	0.560	1.00	0.00
ATOM	494	C	CYS	29	3.725	-14.455	0.248	1.00	0.00
ATOM	495	O	CYS	29	3.138	-14.822	-0.769	1.00	0.00
ATOM	492	CB	CYS	29	5.109	-16.392	0.999	1.00	0.00
ATOM	493	SG	CYS	29	6.744	-17.099	1.295	1.00	0.00
ATOM	496	H	CYS	29	5.823	-14.470	2.504	1.00	0.00
ATOM	497	HA	CYS	29	5.745	-14.837	-0.327	1.00	0.00
ATOM	498	1HB	CYS	29	4.627	-16.979	0.235	1.00	0.00
ATOM	499	2HB	CYS	29	4.546	-16.474	1.918	1.00	0.00
ATOM	500	HG	CYS	29	7.084	-17.802	0.218	1.00	0.00
ATOM	501	N	GLY	30	3.196	-13.623	1.132	1.00	0.00
ATOM	502	CA	GLY	30	1.868	-13.085	0.953	1.00	0.00
ATOM	503	C	GLY	30	1.903	-11.609	0.628	1.00	0.00
ATOM	504	O	GLY	30	1.084	-10.833	1.124	1.00	0.00
ATOM	505	H	GLY	30	3.722	-13.364	1.913	1.00	0.00
ATOM	506	1HA	GLY	30	1.306	-13.229	1.859	1.00	0.00
ATOM	507	2HA	GLY	30	1.379	-13.611	0.145	1.00	0.00
ATOM	508	N	ALA	31	2.861	-11.228	-0.205	1.00	0.00
ATOM	509	CA	ALA	31	3.019	-9.842	-0.618	1.00	0.00
ATOM	511	C	ALA	31	1.758	-9.369	-1.329	1.00	0.00
ATOM	512	O	ALA	31	1.249	-10.051	-2.219	1.00	0.00
ATOM	510	CB	ALA	31	4.235	-9.697	-1.521	1.00	0.00
ATOM	513	H	ALA	31	3.474	-11.902	-0.556	1.00	0.00
ATOM	514	HA	ALA	31	3.173	-9.240	0.267	1.00	0.00
ATOM	515	1HB	ALA	31	5.072	-10.220	-1.082	1.00	0.00
ATOM	516	2HB	ALA	31	4.482	-8.651	-1.629	1.00	0.00
ATOM	517	3HB	ALA	31	4.016	-10.117	-2.492	1.00	0.00
ATOM	518	N	GLY	32	1.238	-8.219	-0.926	1.00	0.00
ATOM	519	CA	GLY	32	0.023	-7.719	-1.545	1.00	0.00
ATOM	520	C	GLY	32	-0.573	-6.511	-0.840	1.00	0.00
ATOM	521	O	GLY	32	-0.917	-5.530	-1.493	1.00	0.00
ATOM	522	H	GLY	32	1.672	-7.712	-0.203	1.00	0.00
ATOM	523	1HA	GLY	32	-0.711	-8.513	-1.550	1.00	0.00
ATOM	524	2HA	GLY	32	0.242	-7.446	-2.566	1.00	0.00
ATOM	525	N	PRO	33	-0.732	-6.540	0.495	1.00	0.00
ATOM	526	CA	PRO	33	-1.312	-5.425	1.235	1.00	0.00
ATOM	530	C	PRO	33	-0.275	-4.359	1.565	1.00	0.00
ATOM	531	O	PRO	33	-0.489	-3.169	1.353	1.00	0.00
ATOM	527	CB	PRO	33	-1.825	-6.083	2.530	1.00	0.00
ATOM	528	CG	PRO	33	-1.496	-7.542	2.417	1.00	0.00
ATOM	529	CD	PRO	33	-0.397	-7.640	1.401	1.00	0.00
ATOM	532	HA	PRO	33	-2.135	-4.978	0.702	1.00	0.00
ATOM	533	1HB	PRO	33	-2.887	-5.927	2.613	1.00	0.00
ATOM	534	2HB	PRO	33	-1.330	-5.637	3.379	1.00	0.00
ATOM	535	1HG	PRO	33	-2.365	-8.090	2.084	1.00	0.00
ATOM	536	2HG	PRO	33	-1.158	-7.918	3.372	1.00	0.00
ATOM	537	1HD	PRO	33	-0.418	-8.586	0.891	1.00	0.00
ATOM	538	2HD	PRO	33	0.564	-7.479	1.868	1.00	0.00
ATOM	539	N	GLY	34	0.849	-4.807	2.100	1.00	0.00
ATOM	540	CA	GLY	34	1.908	-3.901	2.487	1.00	0.00
ATOM	541	C	GLY	34	2.765	-3.394	1.346	1.00	0.00



ATOM	542	O	GLY	34	3.894	-2.965	1.571	1.00	0.00
ATOM	543	H	GLY	34	0.950	-5.766	2.253	1.00	0.00
ATOM	544	1HA	GLY	34	2.547	-4.408	3.197	1.00	0.00
ATOM	545	2HA	GLY	34	1.464	-3.050	2.980	1.00	0.00
ATOM	546	N	GLU	35	2.246	-3.418	0.128	1.00	0.00
ATOM	547	CA	GLU	35	3.011	-2.921	-1.008	1.00	0.00
ATOM	553	C	GLU	35	2.933	-1.397	-1.046	1.00	0.00
ATOM	554	O	GLU	35	3.831	-0.724	-1.556	1.00	0.00
ATOM	548	CB	GLU	35	2.496	-3.491	-2.329	1.00	0.00
ATOM	549	CG	GLU	35	1.976	-4.909	-2.221	1.00	0.00
ATOM	550	CD	GLU	35	2.993	-5.944	-2.648	1.00	0.00
ATOM	551	OE1	GLU	35	3.160	-6.156	-3.865	1.00	0.00
ATOM	552	OE2	GLU	35	3.622	-6.557	-1.765	1.00	0.00
ATOM	555	H	GLU	35	1.336	-3.761	-0.006	1.00	0.00
ATOM	556	HA	GLU	35	4.038	-3.220	-0.865	1.00	0.00
ATOM	557	1HB	GLU	35	3.300	-3.479	-3.050	1.00	0.00
ATOM	558	2HB	GLU	35	1.694	-2.865	-2.690	1.00	0.00
ATOM	559	1HG	GLU	35	1.102	-5.001	-2.845	1.00	0.00
ATOM	560	2HG	GLU	35	1.703	-5.101	-1.193	1.00	0.00
ATOM	561	N	GLY	36	1.847	-0.865	-0.494	1.00	0.00
ATOM	562	CA	GLY	36	1.650	0.572	-0.459	1.00	0.00
ATOM	563	C	GLY	36	2.305	1.215	0.749	1.00	0.00
ATOM	564	O	GLY	36	2.160	0.728	1.871	1.00	0.00
ATOM	565	H	GLY	36	1.171	-1.458	-0.101	1.00	0.00
ATOM	566	1HA	GLY	36	0.590	0.779	-0.433	1.00	0.00
ATOM	567	2HA	GLY	36	2.069	1.005	-1.356	1.00	0.00
ATOM	568	N	PRO	37	3.053	2.311	0.548	1.00	0.00
ATOM	569	CA	PRO	37	3.743	3.009	1.625	1.00	0.00
ATOM	573	C	PRO	37	2.888	4.094	2.289	1.00	0.00
ATOM	574	O	PRO	37	1.665	3.985	2.379	1.00	0.00
ATOM	570	CB	PRO	37	4.928	3.630	0.891	1.00	0.00
ATOM	571	CG	PRO	37	4.410	3.936	-0.477	1.00	0.00
ATOM	572	CD	PRO	37	3.300	2.948	-0.758	1.00	0.00
ATOM	575	HA	PRO	37	4.103	2.322	2.377	1.00	0.00
ATOM	576	1HB	PRO	37	5.745	2.923	0.854	1.00	0.00
ATOM	577	2HB	PRO	37	5.245	4.527	1.405	1.00	0.00
ATOM	578	1HG	PRO	37	5.204	3.820	-1.201	1.00	0.00
ATOM	579	2HG	PRO	37	4.025	4.944	-0.503	1.00	0.00
ATOM	580	1HD	PRO	37	3.624	2.217	-1.485	1.00	0.00
ATOM	581	2HD	PRO	37	2.417	3.461	-1.106	1.00	0.00
ATOM	582	N	ALA	38	3.551	5.139	2.758	1.00	0.00
ATOM	583	CA	ALA	38	2.891	6.253	3.426	1.00	0.00
ATOM	585	C	ALA	38	2.406	7.293	2.423	1.00	0.00
ATOM	586	O	ALA	38	3.186	8.128	1.973	1.00	0.00
ATOM	584	CB	ALA	38	3.865	6.878	4.409	1.00	0.00
ATOM	587	H	ALA	38	4.525	5.163	2.655	1.00	0.00
ATOM	588	HA	ALA	38	2.044	5.873	3.983	1.00	0.00
ATOM	589	1HB	ALA	38	4.830	6.993	3.938	1.00	0.00
ATOM	590	2HB	ALA	38	3.961	6.242	5.277	1.00	0.00
ATOM	591	3HB	ALA	38	3.496	7.847	4.713	1.00	0.00
ATOM	592	N	ALA	39	1.126	7.240	2.058	1.00	0.00
ATOM	593	CA	ALA	39	0.589	8.195	1.088	1.00	0.00
ATOM	595	C	ALA	39	-0.749	8.800	1.522	1.00	0.00
ATOM	596	O	ALA	39	-1.036	9.959	1.226	1.00	0.00
ATOM	594	CB	ALA	39	0.441	7.525	-0.270	1.00	0.00
ATOM	597	H	ALA	39	0.544	6.543	2.428	1.00	0.00
ATOM	598	HA	ALA	39	1.307	8.992	0.984	1.00	0.00
ATOM	599	1HB	ALA	39	-0.510	7.794	-0.702	1.00	0.00
ATOM	600	2HB	ALA	39	0.493	6.453	-0.151	1.00	0.00
ATOM	601	3HB	ALA	39	1.239	7.853	-0.922	1.00	0.00
ATOM	602	N	ASP	40	-1.570	8.010	2.195	1.00	0.00
ATOM	603	CA	ASP	40	-2.889	8.453	2.629	1.00	0.00
ATOM	608	C	ASP	40	-2.807	9.317	3.878	1.00	0.00
ATOM	609	O	ASP	40	-1.813	9.275	4.609	1.00	0.00
ATOM	604	CB	ASP	40	-3.788	7.243	2.891	1.00	0.00
ATOM	605	CG	ASP	40	-3.699	6.211	1.788	1.00	0.00
ATOM	606	OD1	ASP	40	-2.715	5.443	1.788	1.00	0.00
ATOM	607	OD2	ASP	40	-4.601	6.175	0.926	1.00	0.00
ATOM	610	H	ASP	40	-1.302	7.096	2.384	1.00	0.00
ATOM	611	HA	ASP	40	-3.319	9.039	1.831	1.00	0.00
ATOM	612	1HB	ASP	40	-4.810	7.575	2.969	1.00	0.00
ATOM	613	2HB	ASP	40	-3.493	6.776	3.820	1.00	0.00
ATOM	614	N	PRO	41	-3.866	10.106	4.141	1.00	0.00



ATOM	615	CA	PRO	41	-3.943	10.997	5.302	1.00	0.00
ATOM	619	C	PRO	41	-4.193	10.238	6.604	1.00	0.00
ATOM	620	O	PRO	41	-5.094	10.564	7.378	1.00	0.00
ATOM	616	CB	PRO	41	-5.105	11.939	4.974	1.00	0.00
ATOM	617	CG	PRO	41	-5.924	11.250	3.931	1.00	0.00
ATOM	618	CD	PRO	41	-5.074	10.172	3.306	1.00	0.00
ATOM	621	HA	PRO	41	-3.035	11.574	5.405	1.00	0.00
ATOM	622	1HB	PRO	41	-4.712	12.875	4.605	1.00	0.00
ATOM	623	2HB	PRO	41	-5.682	12.119	5.867	1.00	0.00
ATOM	624	1HG	PRO	41	-6.225	11.965	3.179	1.00	0.00
ATOM	625	2HG	PRO	41	-6.795	10.809	4.390	1.00	0.00
ATOM	626	1HD	PRO	41	-4.815	10.426	2.289	1.00	0.00
ATOM	627	2HD	PRO	41	-5.597	9.228	3.327	1.00	0.00
ATOM	628	N	LEU	42	-3.355	9.235	6.820	1.00	0.00
ATOM	629	CA	LEU	42	-3.382	8.384	8.005	1.00	0.00
ATOM	634	C	LEU	42	-2.275	7.357	7.866	1.00	0.00
ATOM	635	O	LEU	42	-1.643	6.951	8.837	1.00	0.00
ATOM	630	CB	LEU	42	-4.726	7.661	8.185	1.00	0.00
ATOM	631	CG	LEU	42	-5.536	7.418	6.903	1.00	0.00
ATOM	632	CD1	LEU	42	-5.283	6.022	6.357	1.00	0.00
ATOM	633	CD2	LEU	42	-7.020	7.624	7.164	1.00	0.00
ATOM	636	H	LEU	42	-2.659	9.068	6.145	1.00	0.00
ATOM	637	HA	LEU	42	-3.180	9.009	8.865	1.00	0.00
ATOM	638	1HB	LEU	42	-5.333	8.244	8.863	1.00	0.00
ATOM	639	2HB	LEU	42	-4.522	6.704	8.646	1.00	0.00
ATOM	640	HG	LEU	42	-5.227	8.129	6.152	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.705	5.941	5.366	1.00	0.00
ATOM	642	2HD1	LEU	42	-5.744	5.292	7.005	1.00	0.00
ATOM	643	3HD1	LEU	42	-4.219	5.842	6.310	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.413	8.344	6.461	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.162	7.990	8.171	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.542	6.685	7.046	1.00	0.00
ATOM	647	N	HIS	43	-2.049	6.959	6.623	1.00	0.00
ATOM	648	CA	HIS	43	-1.020	5.991	6.279	1.00	0.00
ATOM	655	C	HIS	43	0.345	6.506	6.706	1.00	0.00
ATOM	656	O	HIS	43	1.045	5.865	7.490	1.00	0.00
ATOM	649	CB	HIS	43	-1.028	5.772	4.775	1.00	0.00
ATOM	650	CG	HIS	43	-1.470	4.408	4.328	1.00	0.00
ATOM	651	ND1	HIS	43	-0.719	3.632	3.479	1.00	0.00
ATOM	652	CD2	HIS	43	-2.610	3.703	4.569	1.00	0.00
ATOM	653	CE1	HIS	43	-1.366	2.521	3.211	1.00	0.00
ATOM	654	NE2	HIS	43	-2.514	2.533	3.857	1.00	0.00
ATOM	657	H	HIS	43	-2.597	7.339	5.905	1.00	0.00
ATOM	658	HA	HIS	43	-1.229	5.064	6.788	1.00	0.00
ATOM	659	1HB	HIS	43	-0.032	5.940	4.396	1.00	0.00
ATOM	660	2HB	HIS	43	-1.692	6.496	4.334	1.00	0.00
ATOM	661	HD1	HIS	43	0.163	3.866	3.106	1.00	0.00
ATOM	662	HD2	HIS	43	-3.437	4.005	5.206	1.00	0.00
ATOM	663	HE1	HIS	43	-1.017	1.736	2.562	1.00	0.00
ATOM	664	HE2	HIS	43	-3.277	1.932	3.640	1.00	0.00
ATOM	665	N	GLN	44	0.712	7.678	6.187	1.00	0.00
ATOM	666	CA	GLN	44	1.996	8.296	6.524	1.00	0.00
ATOM	672	C	GLN	44	2.093	8.552	8.020	1.00	0.00
ATOM	673	O	GLN	44	3.183	8.562	8.592	1.00	0.00
ATOM	667	CB	GLN	44	2.212	9.615	5.768	1.00	0.00
ATOM	668	CG	GLN	44	1.155	9.930	4.723	1.00	0.00
ATOM	669	CD	GLN	44	0.804	11.404	4.678	1.00	0.00
ATOM	670	OE1	GLN	44	1.229	12.179	5.533	1.00	0.00
ATOM	671	NE2	GLN	44	0.022	11.799	3.687	1.00	0.00
ATOM	674	H	GLN	44	0.108	8.136	5.564	1.00	0.00
ATOM	675	HA	GLN	44	2.777	7.603	6.244	1.00	0.00
ATOM	676	1HB	GLN	44	3.172	9.576	5.275	1.00	0.00
ATOM	677	2HB	GLN	44	2.223	10.424	6.483	1.00	0.00
ATOM	678	1HG	GLN	44	0.262	9.367	4.952	1.00	0.00
ATOM	679	2HG	GLN	44	1.527	9.633	3.752	1.00	0.00
ATOM	680	1HE2	GLN	44	-0.286	11.128	3.042	1.00	0.00
ATOM	681	2HE2	GLN	44	-0.220	12.755	3.637	1.00	0.00
ATOM	682	N	ALA	45	0.942	8.748	8.644	1.00	0.00
ATOM	683	CA	ALA	45	0.887	9.004	10.075	1.00	0.00
ATOM	685	C	ALA	45	1.255	7.759	10.875	1.00	0.00
ATOM	686	O	ALA	45	2.086	7.817	11.787	1.00	0.00
ATOM	684	CB	ALA	45	-0.493	9.496	10.467	1.00	0.00
ATOM	687	H	ALA	45	0.106	8.712	8.126	1.00	0.00



ATOM	688	HA	ALA	45	1.599	9.786	10.299	1.00	0.00
ATOM	689	1HB	ALA	45	-0.547	10.566	10.330	1.00	0.00
ATOM	690	2HB	ALA	45	-0.682	9.255	11.503	1.00	0.00
ATOM	691	3HB	ALA	45	-1.236	9.016	9.845	1.00	0.00
ATOM	692	N	MET	46	0.628	6.635	10.539	1.00	0.00
ATOM	693	CA	MET	46	0.888	5.383	11.243	1.00	0.00
ATOM	698	C	MET	46	2.330	4.918	11.067	1.00	0.00
ATOM	699	O	MET	46	2.894	4.278	11.959	1.00	0.00
ATOM	694	CB	MET	46	-0.065	4.294	10.763	1.00	0.00
ATOM	695	CG	MET	46	-0.820	3.620	11.894	1.00	0.00
ATOM	696	SD	MET	46	-2.430	3.016	11.377	1.00	0.00
ATOM	697	CE	MET	46	-3.410	4.485	11.641	1.00	0.00
ATOM	700	H	MET	46	-0.038	6.649	9.804	1.00	0.00
ATOM	701	HA	MET	46	0.712	5.557	12.295	1.00	0.00
ATOM	702	1HB	MET	46	0.502	3.539	10.238	1.00	0.00
ATOM	703	2HB	MET	46	-0.783	4.731	10.085	1.00	0.00
ATOM	704	1HG	MET	46	-0.960	4.337	12.691	1.00	0.00
ATOM	705	2HG	MET	46	-0.241	2.790	12.259	1.00	0.00
ATOM	706	1HE	MET	46	-2.758	5.334	11.788	1.00	0.00
ATOM	707	2HE	MET	46	-4.029	4.349	12.517	1.00	0.00
ATOM	708	3HE	MET	46	-4.037	4.660	10.779	1.00	0.00
ATOM	709	N	ARG	47	2.924	5.238	9.922	1.00	0.00
ATOM	710	CA	ARG	47	4.301	4.842	9.638	1.00	0.00
ATOM	718	C	ARG	47	5.277	5.471	10.628	1.00	0.00
ATOM	719	O	ARG	47	6.195	4.807	11.108	1.00	0.00
ATOM	711	CB	ARG	47	4.693	5.228	8.208	1.00	0.00
ATOM	712	CG	ARG	47	6.099	4.783	7.828	1.00	0.00
ATOM	713	CD	ARG	47	6.610	5.518	6.600	1.00	0.00
ATOM	714	NE	ARG	47	7.199	6.815	6.934	1.00	0.00
ATOM	715	CZ	ARG	47	8.134	7.417	6.199	1.00	0.00
ATOM	716	NH1	ARG	47	8.635	6.812	5.132	1.00	0.00
ATOM	717	NH2	ARG	47	8.590	8.610	6.554	1.00	0.00
ATOM	720	H	ARG	47	2.422	5.747	9.250	1.00	0.00
ATOM	721	HA	ARG	47	4.357	3.767	9.735	1.00	0.00
ATOM	722	1HB	ARG	47	4.638	6.301	8.109	1.00	0.00
ATOM	723	2HB	ARG	47	3.995	4.773	7.519	1.00	0.00
ATOM	724	1HG	ARG	47	6.086	3.723	7.621	1.00	0.00
ATOM	725	2HG	ARG	47	6.763	4.983	8.654	1.00	0.00
ATOM	726	1HD	ARG	47	5.783	5.674	5.921	1.00	0.00
ATOM	727	2HD	ARG	47	7.359	4.908	6.119	1.00	0.00
ATOM	728	HE	ARG	47	6.872	7.267	7.745	1.00	0.00
ATOM	729	1HH1	ARG	47	8.317	5.898	4.874	1.00	0.00
ATOM	730	2HH1	ARG	47	9.343	7.269	4.574	1.00	0.00
ATOM	731	1HH2	ARG	47	8.230	9.061	7.384	1.00	0.00
ATOM	732	2HH2	ARG	47	9.289	9.077	5.997	1.00	0.00
ATOM	733	N	ALA	48	5.072	6.747	10.938	1.00	0.00
ATOM	734	CA	ALA	48	5.942	7.450	11.872	1.00	0.00
ATOM	736	C	ALA	48	5.609	7.057	13.299	1.00	0.00
ATOM	737	O	ALA	48	6.442	7.145	14.203	1.00	0.00
ATOM	735	CB	ALA	48	5.817	8.952	11.694	1.00	0.00
ATOM	738	H	ALA	48	4.316	7.224	10.538	1.00	0.00
ATOM	739	HA	ALA	48	6.963	7.162	11.658	1.00	0.00
ATOM	740	1HB	ALA	48	5.943	9.439	12.649	1.00	0.00
ATOM	741	2HB	ALA	48	4.842	9.188	11.294	1.00	0.00
ATOM	742	3HB	ALA	48	6.581	9.297	11.011	1.00	0.00
ATOM	743	N	ALA	49	4.383	6.601	13.489	1.00	0.00
ATOM	744	CA	ALA	49	3.939	6.165	14.793	1.00	0.00
ATOM	746	C	ALA	49	4.640	4.871	15.154	1.00	0.00
ATOM	747	O	ALA	49	5.431	4.829	16.099	1.00	0.00
ATOM	745	CB	ALA	49	2.431	5.979	14.806	1.00	0.00
ATOM	748	H	ALA	49	3.769	6.542	12.724	1.00	0.00
ATOM	749	HA	ALA	49	4.203	6.924	15.515	1.00	0.00
ATOM	750	1HB	ALA	49	2.097	5.684	13.822	1.00	0.00
ATOM	751	2HB	ALA	49	1.957	6.909	15.083	1.00	0.00
ATOM	752	3HB	ALA	49	2.168	5.214	15.521	1.00	0.00
ATOM	753	N	GLY	50	4.346	3.829	14.380	1.00	0.00
ATOM	754	CA	GLY	50	4.950	2.528	14.597	1.00	0.00
ATOM	755	C	GLY	50	6.455	2.607	14.737	1.00	0.00
ATOM	756	O	GLY	50	7.014	2.026	15.647	1.00	0.00
ATOM	757	H	GLY	50	3.706	3.950	13.644	1.00	0.00
ATOM	758	1HA	GLY	50	4.711	1.888	13.761	1.00	0.00
ATOM	759	2HA	GLY	50	4.537	2.098	15.498	1.00	0.00
ATOM	760	N	ASP	51	7.093	3.352	13.842	1.00	0.00



ATOM	761	CA	ASP	51	8.544	3.548	13.852	1.00	0.00
ATOM	766	C	ASP	51	9.037	4.003	15.227	1.00	0.00
ATOM	767	O	ASP	51	9.959	3.417	15.807	1.00	0.00
ATOM	762	CB	ASP	51	8.909	4.601	12.799	1.00	0.00
ATOM	763	CG	ASP	51	10.400	4.723	12.555	1.00	0.00
ATOM	764	OD1	ASP	51	11.149	3.794	12.914	1.00	0.00
ATOM	765	OD2	ASP	51	10.824	5.757	11.986	1.00	0.00
ATOM	768	H	ASP	51	6.570	3.798	13.151	1.00	0.00
ATOM	769	HA	ASP	51	9.018	2.611	13.599	1.00	0.00
ATOM	770	1HB	ASP	51	8.541	5.562	13.129	1.00	0.00
ATOM	771	2HB	ASP	51	8.432	4.346	11.865	1.00	0.00
ATOM	772	N	GLU	52	8.409	5.052	15.743	1.00	0.00
ATOM	773	CA	GLU	52	8.769	5.604	17.039	1.00	0.00
ATOM	779	C	GLU	52	8.576	4.590	18.169	1.00	0.00
ATOM	780	O	GLU	52	9.439	4.445	19.039	1.00	0.00
ATOM	774	CB	GLU	52	7.934	6.849	17.320	1.00	0.00
ATOM	775	CG	GLU	52	8.288	7.545	18.621	1.00	0.00
ATOM	776	CD	GLU	52	8.740	8.970	18.402	1.00	0.00
ATOM	777	OE1	GLU	52	7.902	9.799	17.990	1.00	0.00
ATOM	778	OE2	GLU	52	9.935	9.261	18.637	1.00	0.00
ATOM	781	H	GLU	52	7.680	5.470	15.232	1.00	0.00
ATOM	782	HA	GLU	52	9.810	5.885	17.001	1.00	0.00
ATOM	783	1HB	GLU	52	6.892	6.567	17.360	1.00	0.00
ATOM	784	2HB	GLU	52	8.074	7.552	16.512	1.00	0.00
ATOM	785	1HG	GLU	52	9.085	6.999	19.103	1.00	0.00
ATOM	786	2HG	GLU	52	7.418	7.554	19.261	1.00	0.00
ATOM	787	N	PHE	53	7.443	3.903	18.170	1.00	0.00
ATOM	788	CA	PHE	53	7.159	2.932	19.222	1.00	0.00
ATOM	796	C	PHE	53	7.953	1.646	19.038	1.00	0.00
ATOM	797	O	PHE	53	8.352	1.024	20.013	1.00	0.00
ATOM	789	CB	PHE	53	5.667	2.625	19.297	1.00	0.00
ATOM	790	CG	PHE	53	4.990	3.265	20.479	1.00	0.00
ATOM	791	CD1	PHE	53	5.328	4.550	20.879	1.00	0.00
ATOM	792	CD2	PHE	53	4.014	2.583	21.190	1.00	0.00
ATOM	793	CE1	PHE	53	4.707	5.139	21.963	1.00	0.00
ATOM	794	CE2	PHE	53	3.391	3.170	22.276	1.00	0.00
ATOM	795	CZ	PHE	53	3.738	4.448	22.662	1.00	0.00
ATOM	798	H	PHE	53	6.777	4.060	17.460	1.00	0.00
ATOM	799	HA	PHE	53	7.461	3.380	20.158	1.00	0.00
ATOM	800	1HB	PHE	53	5.530	1.556	19.369	1.00	0.00
ATOM	801	2HB	PHE	53	5.188	2.986	18.399	1.00	0.00
ATOM	802	HD1	PHE	53	3.742	1.582	20.889	1.00	0.00
ATOM	803	HD2	PHE	53	6.086	5.092	20.333	1.00	0.00
ATOM	804	HE1	PHE	53	2.632	2.628	22.820	1.00	0.00
ATOM	805	HE2	PHE	53	4.980	6.140	22.264	1.00	0.00
ATOM	806	HZ	PHE	53	3.252	4.908	23.510	1.00	0.00
ATOM	807	N	GLU	54	8.191	1.260	17.797	1.00	0.00
ATOM	808	CA	GLU	54	8.955	0.056	17.504	1.00	0.00
ATOM	814	C	GLU	54	10.381	0.230	18.030	1.00	0.00
ATOM	815	O	GLU	54	11.062	-0.736	18.384	1.00	0.00
ATOM	809	CB	GLU	54	8.927	-0.228	15.991	1.00	0.00
ATOM	810	CG	GLU	54	9.636	-1.513	15.575	1.00	0.00
ATOM	811	CD	GLU	54	8.862	-2.305	14.531	1.00	0.00
ATOM	812	OE1	GLU	54	7.654	-2.046	14.348	1.00	0.00
ATOM	813	OE2	GLU	54	9.459	-3.183	13.864	1.00	0.00
ATOM	816	H	GLU	54	7.851	1.804	17.051	1.00	0.00
ATOM	817	HA	GLU	54	8.491	-0.766	18.029	1.00	0.00
ATOM	818	1HB	GLU	54	9.378	0.605	15.463	1.00	0.00
ATOM	819	2HB	GLU	54	7.894	-0.309	15.681	1.00	0.00
ATOM	820	1HG	GLU	54	9.770	-2.134	16.450	1.00	0.00
ATOM	821	2HG	GLU	54	10.602	-1.259	15.167	1.00	0.00
ATOM	822	N	THR	55	10.808	1.488	18.103	1.00	0.00
ATOM	823	CA	THR	55	12.127	1.833	18.607	1.00	0.00
ATOM	827	C	THR	55	12.112	2.037	20.135	1.00	0.00
ATOM	828	O	THR	55	13.031	1.607	20.838	1.00	0.00
ATOM	824	CB	THR	55	12.646	3.111	17.916	1.00	0.00
ATOM	825	OG1	THR	55	12.704	2.903	16.498	1.00	0.00
ATOM	826	CG2	THR	55	14.026	3.501	18.434	1.00	0.00
ATOM	829	H	THR	55	10.203	2.208	17.815	1.00	0.00
ATOM	830	HA	THR	55	12.799	1.020	18.368	1.00	0.00
ATOM	831	HB	THR	55	11.958	3.918	18.124	1.00	0.00
ATOM	832	HG1	THR	55	11.839	3.100	16.104	1.00	0.00
ATOM	833	1HG2	THR	55	13.957	4.436	18.971	1.00	0.00



ATOM	834	2HG2	THR	55	14.705	3.614	17.602	1.00	0.00
ATOM	835	3HG2	THR	55	14.394	2.731	19.097	1.00	0.00
ATOM	836	N	ARG	56	11.078	2.706	20.642	1.00	0.00
ATOM	837	CA	ARG	56	10.964	2.981	22.077	1.00	0.00
ATOM	845	C	ARG	56	10.275	1.837	22.834	1.00	0.00
ATOM	846	O	ARG	56	10.876	1.187	23.688	1.00	0.00
ATOM	838	CB	ARG	56	10.190	4.285	22.303	1.00	0.00
ATOM	839	CG	ARG	56	11.037	5.544	22.161	1.00	0.00
ATOM	840	CD	ARG	56	10.285	6.772	22.656	1.00	0.00
ATOM	841	NE	ARG	56	10.346	7.885	21.709	1.00	0.00
ATOM	842	CZ	ARG	56	10.337	9.169	22.071	1.00	0.00
ATOM	843	NH1	ARG	56	10.342	9.505	23.354	1.00	0.00
ATOM	844	NH2	ARG	56	10.334	10.122	21.149	1.00	0.00
ATOM	847	H	ARG	56	10.381	3.039	20.035	1.00	0.00
ATOM	848	HA	ARG	56	11.963	3.100	22.468	1.00	0.00
ATOM	849	LHB	ARG	56	9.772	4.270	23.299	1.00	0.00
ATOM	850	2HB	ARG	56	9.384	4.338	21.586	1.00	0.00
ATOM	851	1HG	ARG	56	11.290	5.681	21.119	1.00	0.00
ATOM	852	2HG	ARG	56	11.939	5.426	22.742	1.00	0.00
ATOM	853	1HD	ARG	56	10.716	7.089	23.593	1.00	0.00
ATOM	854	2HD	ARG	56	9.251	6.505	22.810	1.00	0.00
ATOM	855	HE	ARG	56	10.379	7.663	20.750	1.00	0.00
ATOM	856	1HH1	ARG	56	10.350	8.800	24.066	1.00	0.00
ATOM	857	2HH1	ARG	56	10.335	10.486	23.617	1.00	0.00
ATOM	858	1HH2	ARG	56	10.332	9.882	20.165	1.00	0.00
ATOM	859	2HH2	ARG	56	10.335	11.091	21.427	1.00	0.00
ATOM	860	N	PHE	57	9.007	1.606	22.517	1.00	0.00
ATOM	861	CA	PHE	57	8.209	0.558	23.155	1.00	0.00
ATOM	869	C	PHE	57	8.505	-0.817	22.546	1.00	0.00
ATOM	870	O	PHE	57	7.625	-1.466	21.985	1.00	0.00
ATOM	862	CB	PHE	57	6.718	0.900	23.006	1.00	0.00
ATOM	863	CG	PHE	57	5.800	0.145	23.926	1.00	0.00
ATOM	864	CD1	PHE	57	6.130	-0.066	25.256	1.00	0.00
ATOM	865	CD2	PHE	57	4.594	-0.346	23.454	1.00	0.00
ATOM	866	CE1	PHE	57	5.273	-0.754	26.095	1.00	0.00
ATOM	867	CE2	PHE	57	3.734	-1.032	24.286	1.00	0.00
ATOM	868	CZ	PHE	57	4.073	-1.237	25.608	1.00	0.00
ATOM	871	H	PHE	57	8.587	2.158	21.825	1.00	0.00
ATOM	872	HA	PHE	57	8.460	0.538	24.204	1.00	0.00
ATOM	873	1HB	PHE	57	6.413	0.691	21.991	1.00	0.00
ATOM	874	2HB	PHE	57	6.581	1.953	23.203	1.00	0.00
ATOM	875	HD1	PHE	57	4.328	-0.187	22.419	1.00	0.00
ATOM	876	HD2	PHE	57	7.067	0.312	25.636	1.00	0.00
ATOM	877	HE1	PHE	57	2.797	-1.408	23.903	1.00	0.00
ATOM	878	HE2	PHE	57	5.541	-0.913	27.129	1.00	0.00
ATOM	879	HZ	PHE	57	3.399	-1.773	26.261	1.00	0.00
ATOM	880	N	ARG	58	9.750	-1.255	22.657	1.00	0.00
ATOM	881	CA	ARG	58	10.155	-2.542	22.105	1.00	0.00
ATOM	889	C	ARG	58	9.874	-3.694	23.073	1.00	0.00
ATOM	890	O	ARG	58	10.163	-4.850	22.774	1.00	0.00
ATOM	882	CB	ARG	58	11.639	-2.518	21.734	1.00	0.00
ATOM	883	CG	ARG	58	12.570	-2.492	22.933	1.00	0.00
ATOM	884	CD	ARG	58	13.969	-2.059	22.537	1.00	0.00
ATOM	885	NE	ARG	58	14.091	-0.607	22.472	1.00	0.00
ATOM	886	CZ	ARG	58	14.553	0.148	23.468	1.00	0.00
ATOM	887	NH1	ARG	58	14.968	-0.419	24.600	1.00	0.00
ATOM	888	NH2	ARG	58	14.602	1.466	23.327	1.00	0.00
ATOM	891	H	ARG	58	10.417	-0.692	23.110	1.00	0.00
ATOM	892	HA	ARG	58	9.579	-2.705	21.207	1.00	0.00
ATOM	893	1HB	ARG	58	11.834	-1.639	21.135	1.00	0.00
ATOM	894	2HB	ARG	58	11.867	-3.397	21.148	1.00	0.00
ATOM	895	1HG	ARG	58	12.616	-3.482	23.362	1.00	0.00
ATOM	896	2HG	ARG	58	12.181	-1.798	23.662	1.00	0.00
ATOM	897	1HD	ARG	58	14.200	-2.475	21.567	1.00	0.00
ATOM	898	2HD	ARG	58	14.669	-2.438	23.267	1.00	0.00
ATOM	899	HE	ARG	58	13.801	-0.167	21.635	1.00	0.00
ATOM	900	1HH1	ARG	58	14.937	-1.418	24.707	1.00	0.00
ATOM	901	2HH1	ARG	58	15.309	0.154	25.358	1.00	0.00
ATOM	902	1HH2	ARG	58	14.291	1.891	22.472	1.00	0.00
ATOM	903	2HH2	ARG	58	14.951	2.046	24.074	1.00	0.00
ATOM	904	N	ARG	59	9.315	-3.382	24.234	1.00	0.00
ATOM	905	CA	ARG	59	9.016	-4.410	25.225	1.00	0.00
ATOM	913	C	ARG	59	7.620	-5.002	25.024	1.00	0.00



ATOM	914	O	ARG	59	7.071	-5.623	25.929	1.00	0.00
ATOM	906	CB	ARG	59	9.163	-3.844	26.642	1.00	0.00
ATOM	907	CG	ARG	59	8.065	-2.867	27.040	1.00	0.00
ATOM	908	CD	ARG	59	8.005	-2.684	28.550	1.00	0.00
ATOM	909	NE	ARG	59	8.129	-1.277	28.934	1.00	0.00
ATOM	910	CZ	ARG	59	7.548	-0.734	30.005	1.00	0.00
ATOM	911	NH1	ARG	59	6.846	-1.485	30.851	1.00	0.00
ATOM	912	NH2	ARG	59	7.692	0.562	30.244	1.00	0.00
ATOM	915	H	ARG	59	9.102	-2.447	24.430	1.00	0.00
ATOM	916	HA	ARG	59	9.742	-5.199	25.095	1.00	0.00
ATOM	917	1HB	ARG	59	10.111	-3.332	26.712	1.00	0.00
ATOM	918	2HB	ARG	59	9.155	-4.663	27.346	1.00	0.00
ATOM	919	1HG	ARG	59	7.115	-3.245	26.694	1.00	0.00
ATOM	920	2HG	ARG	59	8.264	-1.910	26.582	1.00	0.00
ATOM	921	1HD	ARG	59	8.812	-3.242	29.000	1.00	0.00
ATOM	922	2HD	ARG	59	7.060	-3.064	28.911	1.00	0.00
ATOM	923	HE	ARG	59	8.672	-0.702	28.354	1.00	0.00
ATOM	924	1HH1	ARG	59	6.750	-2.476	30.692	1.00	0.00
ATOM	925	2HH1	ARG	59	6.411	-1.069	31.652	1.00	0.00
ATOM	926	1HH2	ARG	59	8.234	1.134	29.618	1.00	0.00
ATOM	927	2HH2	ARG	59	7.271	0.976	31.062	1.00	0.00
ATOM	928	N	THR	60	7.056	-4.810	23.837	1.00	0.00
ATOM	929	CA	THR	60	5.729	-5.328	23.531	1.00	0.00
ATOM	933	C	THR	60	5.817	-6.563	22.630	1.00	0.00
ATOM	934	O	THR	60	4.802	-7.155	22.254	1.00	0.00
ATOM	930	CB	THR	60	4.851	-4.239	22.868	1.00	0.00
ATOM	931	OG1	THR	60	3.465	-4.562	23.014	1.00	0.00
ATOM	932	CG2	THR	60	5.188	-4.067	21.390	1.00	0.00
ATOM	935	H	THR	60	7.543	-4.310	23.151	1.00	0.00
ATOM	936	HA	THR	60	5.264	-5.613	24.464	1.00	0.00
ATOM	937	HB	THR	60	5.041	-3.301	23.371	1.00	0.00
ATOM	938	HG1	THR	60	3.383	-5.464	23.347	1.00	0.00
ATOM	939	1HG2	THR	60	5.351	-5.037	20.944	1.00	0.00
ATOM	940	2HG2	THR	60	6.084	-3.472	21.292	1.00	0.00
ATOM	941	3HG2	THR	60	4.369	-3.571	20.887	1.00	0.00
ATOM	942	N	PHE	61	7.041	-6.947	22.285	1.00	0.00
ATOM	943	CA	PHE	61	7.260	-8.105	21.426	1.00	0.00
ATOM	951	C	PHE	61	7.277	-9.396	22.238	1.00	0.00
ATOM	952	O	PHE	61	7.017	-10.476	21.714	1.00	0.00
ATOM	944	CB	PHE	61	8.566	-7.952	20.648	1.00	0.00
ATOM	945	CG	PHE	61	8.498	-6.916	19.559	1.00	0.00
ATOM	946	CD1	PHE	61	8.085	-7.258	18.281	1.00	0.00
ATOM	947	CD2	PHE	61	8.840	-5.596	19.815	1.00	0.00
ATOM	948	CE1	PHE	61	8.015	-6.307	17.280	1.00	0.00
ATOM	949	CE2	PHE	61	8.772	-4.641	18.818	1.00	0.00
ATOM	950	CZ	PHE	61	8.359	-4.997	17.549	1.00	0.00
ATOM	953	H	PHE	61	7.811	-6.439	22.615	1.00	0.00
ATOM	954	HA	PHE	61	6.441	-8.151	20.724	1.00	0.00
ATOM	955	1HB	PHE	61	8.816	-8.899	20.194	1.00	0.00
ATOM	956	2HB	PHE	61	9.350	-7.666	21.332	1.00	0.00
ATOM	957	HD1	PHE	61	9.165	-5.316	20.806	1.00	0.00
ATOM	958	HD2	PHE	61	7.816	-8.282	18.068	1.00	0.00
ATOM	959	HE1	PHE	61	9.041	-3.616	19.031	1.00	0.00
ATOM	960	HE2	PHE	61	7.692	-6.586	16.287	1.00	0.00
ATOM	961	HZ	PHE	61	8.305	-4.251	16.769	1.00	0.00
ATOM	962	N	SER	62	7.576	-9.271	23.522	1.00	0.00
ATOM	963	CA	SER	62	7.623	-10.415	24.425	1.00	0.00
ATOM	966	C	SER	62	6.242	-11.042	24.575	1.00	0.00
ATOM	967	O	SER	62	6.108	-12.258	24.704	1.00	0.00
ATOM	964	CB	SER	62	8.138	-9.946	25.784	1.00	0.00
ATOM	965	OG	SER	62	8.249	-8.528	25.804	1.00	0.00
ATOM	968	H	SER	62	7.772	-8.381	23.883	1.00	0.00
ATOM	969	HA	SER	62	8.302	-11.147	24.016	1.00	0.00
ATOM	970	1HB	SER	62	9.110	-10.376	25.976	1.00	0.00
ATOM	971	2HB	SER	62	7.445	-10.254	26.554	1.00	0.00
ATOM	972	HG	SER	62	7.422	-8.146	26.135	1.00	0.00
ATOM	973	N	ASP	63	5.225	-10.194	24.563	1.00	0.00
ATOM	974	CA	ASP	63	3.836	-10.615	24.701	1.00	0.00
ATOM	979	C	ASP	63	3.422	-11.525	23.565	1.00	0.00
ATOM	980	O	ASP	63	2.618	-12.440	23.749	1.00	0.00
ATOM	975	CB	ASP	63	2.929	-9.387	24.742	1.00	0.00
ATOM	976	CG	ASP	63	3.406	-8.329	25.724	1.00	0.00
ATOM	977	OD1	ASP	63	4.507	-7.773	25.506	1.00	0.00



ATOM	978	OD2	ASP	63	2.687	-8.056	26.710	1.00	0.00
ATOM	981	H	ASP	63	5.411	-9.230	24.469	1.00	0.00
ATOM	982	HA	ASP	63	3.739	-11.164	25.621	1.00	0.00
ATOM	983	1HB	ASP	63	1.937	-9.695	25.022	1.00	0.00
ATOM	984	2HB	ASP	63	2.897	-8.942	23.758	1.00	0.00
ATOM	985	N	LEU	64	3.979	-11.275	22.396	1.00	0.00
ATOM	986	CA	LEU	64	3.682	-12.080	21.219	1.00	0.00
ATOM	991	C	LEU	64	4.046	-13.533	21.497	1.00	0.00
ATOM	992	O	LEU	64	3.308	-14.458	21.157	1.00	0.00
ATOM	987	CB	LEU	64	4.478	-11.582	20.009	1.00	0.00
ATOM	988	CG	LEU	64	3.962	-10.315	19.308	1.00	0.00
ATOM	989	CD1	LEU	64	3.009	-9.516	20.190	1.00	0.00
ATOM	990	CD2	LEU	64	5.137	-9.451	18.880	1.00	0.00
ATOM	993	H	LEU	64	4.613	-10.531	22.323	1.00	0.00
ATOM	994	HA	LEU	64	2.623	-12.006	21.012	1.00	0.00
ATOM	995	1HB	LEU	64	4.503	-12.380	19.280	1.00	0.00
ATOM	996	2HB	LEU	64	5.489	-11.392	20.334	1.00	0.00
ATOM	997	HG	LEU	64	3.424	-10.603	18.417	1.00	0.00
ATOM	998	1HD1	LEU	64	3.199	-9.748	21.228	1.00	0.00
ATOM	999	2HD1	LEU	64	1.988	-9.776	19.945	1.00	0.00
ATOM	1000	3HD1	LEU	64	3.160	-8.461	20.023	1.00	0.00
ATOM	1001	1HD2	LEU	64	5.194	-8.581	19.517	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.001	-9.140	17.855	1.00	0.00
ATOM	1003	3HD2	LEU	64	6.052	-10.020	18.965	1.00	0.00
ATOM	1004	N	ALA	65	5.187	-13.713	22.147	1.00	0.00
ATOM	1005	CA	ALA	65	5.667	-15.039	22.493	1.00	0.00
ATOM	1007	C	ALA	65	4.968	-15.551	23.738	1.00	0.00
ATOM	1008	O	ALA	65	4.611	-16.718	23.815	1.00	0.00
ATOM	1006	CB	ALA	65	7.176	-15.023	22.690	1.00	0.00
ATOM	1009	H	ALA	65	5.714	-12.928	22.410	1.00	0.00
ATOM	1010	HA	ALA	65	5.439	-15.700	21.671	1.00	0.00
ATOM	1011	1HB	ALA	65	7.596	-15.952	22.331	1.00	0.00
ATOM	1012	2HB	ALA	65	7.401	-14.910	23.741	1.00	0.00
ATOM	1013	3HB	ALA	65	7.604	-14.198	22.140	1.00	0.00
ATOM	1014	N	ALA	66	4.776	-14.663	24.708	1.00	0.00
ATOM	1015	CA	ALA	66	4.114	-15.012	25.962	1.00	0.00
ATOM	1017	C	ALA	66	2.779	-15.712	25.715	1.00	0.00
ATOM	1018	O	ALA	66	2.472	-16.728	26.339	1.00	0.00
ATOM	1016	CB	ALA	66	3.904	-13.766	26.802	1.00	0.00
ATOM	1019	H	ALA	66	5.094	-13.736	24.576	1.00	0.00
ATOM	1020	HA	ALA	66	4.760	-15.678	26.513	1.00	0.00
ATOM	1021	1HB	ALA	66	4.356	-12.919	26.308	1.00	0.00
ATOM	1022	2HB	ALA	66	4.362	-13.905	27.770	1.00	0.00
ATOM	1023	3HB	ALA	66	2.846	-13.589	26.926	1.00	0.00
ATOM	1024	N	GLN	67	1.987	-15.158	24.808	1.00	0.00
ATOM	1025	CA	GLN	67	0.678	-15.729	24.491	1.00	0.00
ATOM	1031	C	GLN	67	0.770	-16.973	23.609	1.00	0.00
ATOM	1032	O	GLN	67	0.115	-17.982	23.878	1.00	0.00
ATOM	1026	CB	GLN	67	-0.198	-14.709	23.770	1.00	0.00
ATOM	1027	CG	GLN	67	-0.377	-13.402	24.507	1.00	0.00
ATOM	1028	CD	GLN	67	-0.887	-12.315	23.591	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.092	-12.133	23.437	1.00	0.00
ATOM	1030	NE2	GLN	67	0.027	-11.596	22.963	1.00	0.00
ATOM	1033	H	GLN	67	2.284	-14.337	24.346	1.00	0.00
ATOM	1034	HA	GLN	67	0.201	-15.996	25.421	1.00	0.00
ATOM	1035	1HB	GLN	67	-1.175	-15.144	23.613	1.00	0.00
ATOM	1036	2HB	GLN	67	0.244	-14.493	22.808	1.00	0.00
ATOM	1037	1HG	GLN	67	0.576	-13.097	24.916	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.088	-13.547	25.308	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.975	-11.806	23.127	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.275	-10.883	22.366	1.00	0.00
ATOM	1041	N	LEU	68	1.532	-16.880	22.525	1.00	0.00
ATOM	1042	CA	LEU	68	1.638	-17.983	21.569	1.00	0.00
ATOM	1047	C	LEU	68	2.603	-19.087	22.005	1.00	0.00
ATOM	1048	O	LEU	68	2.864	-20.014	21.240	1.00	0.00
ATOM	1043	CB	LEU	68	2.043	-17.444	20.193	1.00	0.00
ATOM	1044	CG	LEU	68	0.890	-16.914	19.326	1.00	0.00
ATOM	1045	CD1	LEU	68	-0.435	-17.557	19.718	1.00	0.00
ATOM	1046	CD2	LEU	68	0.793	-15.399	19.428	1.00	0.00
ATOM	1049	H	LEU	68	1.998	-16.034	22.333	1.00	0.00
ATOM	1050	HA	LEU	68	0.655	-18.419	21.479	1.00	0.00
ATOM	1051	1HB	LEU	68	2.533	-18.239	19.650	1.00	0.00
ATOM	1052	2HB	LEU	68	2.753	-16.643	20.340	1.00	0.00



ATOM	1053	HG	LEU	68	1.084	-17.165	18.294	1.00	0.00
ATOM	1054	1HD1	LEU	68	-0.449	-18.585	19.386	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.248	-17.018	19.253	1.00	0.00
ATOM	1056	3HD1	LEU	68	-0.549	-17.524	20.791	1.00	0.00
ATOM	1057	1HD2	LEU	68	-0.212	-15.086	19.187	1.00	0.00
ATOM	1058	2HD2	LEU	68	1.486	-14.947	18.735	1.00	0.00
ATOM	1059	3HD2	LEU	68	1.034	-15.089	20.434	1.00	0.00
ATOM	1060	N	HIS	69	3.126	-19.004	23.218	1.00	0.00
ATOM	1061	CA	HIS	69	4.050	-20.025	23.706	1.00	0.00
ATOM	1068	C	HIS	69	3.286	-21.227	24.247	1.00	0.00
ATOM	1069	O	HIS	69	3.762	-22.358	24.182	1.00	0.00
ATOM	1062	CB	HIS	69	4.970	-19.456	24.796	1.00	0.00
ATOM	1063	CG	HIS	69	6.110	-20.359	25.173	1.00	0.00
ATOM	1064	ND1	HIS	69	7.390	-20.217	24.676	1.00	0.00
ATOM	1065	CD2	HIS	69	6.155	-21.419	26.015	1.00	0.00
ATOM	1066	CE1	HIS	69	8.166	-21.148	25.197	1.00	0.00
ATOM	1067	NE2	HIS	69	7.441	-21.889	26.012	1.00	0.00
ATOM	1070	H	HIS	69	2.890	-18.248	23.795	1.00	0.00
ATOM	1071	HA	HIS	69	4.651	-20.347	22.872	1.00	0.00
ATOM	1072	1HB	HIS	69	4.388	-19.269	25.686	1.00	0.00
ATOM	1073	2HB	HIS	69	5.391	-18.524	24.448	1.00	0.00
ATOM	1074	HD1	HIS	69	7.686	-19.538	24.030	1.00	0.00
ATOM	1075	HD2	HIS	69	5.328	-21.818	26.582	1.00	0.00
ATOM	1076	HE1	HIS	69	9.219	-21.281	24.990	1.00	0.00
ATOM	1077	HE2	HIS	69	7.736	-22.742	26.415	1.00	0.00
ATOM	1078	N	VAL	70	2.112	-20.974	24.801	1.00	0.00
ATOM	1079	CA	VAL	70	1.299	-22.040	25.370	1.00	0.00
ATOM	1083	C	VAL	70	0.312	-22.622	24.350	1.00	0.00
ATOM	1084	O	VAL	70	0.291	-23.831	24.127	1.00	0.00
ATOM	1080	CB	VAL	70	0.553	-21.565	26.646	1.00	0.00
ATOM	1081	CG1	VAL	70	-0.126	-20.220	26.425	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.452	-22.609	27.117	1.00	0.00
ATOM	1085	H	VAL	70	1.791	-20.050	24.837	1.00	0.00
ATOM	1086	HA	VAL	70	1.976	-22.830	25.664	1.00	0.00
ATOM	1087	HB	VAL	70	1.288	-21.436	27.428	1.00	0.00
ATOM	1088	1HG1	VAL	70	-0.756	-20.274	25.550	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.626	-19.457	26.280	1.00	0.00
ATOM	1090	3HG1	VAL	70	-0.728	-19.974	27.287	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.043	-22.203	27.923	1.00	0.00
ATOM	1092	2HG2	VAL	70	0.075	-23.486	27.463	1.00	0.00
ATOM	1093	3HG2	VAL	70	-1.100	-22.879	26.297	1.00	0.00
ATOM	1094	N	THR	71	-0.511	-21.768	23.742	1.00	0.00
ATOM	1095	CA	THR	71	-1.495	-22.227	22.768	1.00	0.00
ATOM	1099	C	THR	71	-2.174	-21.043	22.074	1.00	0.00
ATOM	1100	O	THR	71	-2.423	-20.001	22.693	1.00	0.00
ATOM	1096	CB	THR	71	-2.578	-23.117	23.444	1.00	0.00
ATOM	1097	OG1	THR	71	-3.596	-23.487	22.502	1.00	0.00
ATOM	1098	CG2	THR	71	-3.224	-22.402	24.625	1.00	0.00
ATOM	1101	H	THR	71	-0.460	-20.816	23.959	1.00	0.00
ATOM	1102	HA	THR	71	-0.980	-22.821	22.027	1.00	0.00
ATOM	1103	HB	THR	71	-2.099	-24.014	23.809	1.00	0.00
ATOM	1104	HG1	THR	71	-4.128	-22.711	22.280	1.00	0.00
ATOM	1105	1HG2	THR	71	-3.736	-21.518	24.275	1.00	0.00
ATOM	1106	2HG2	THR	71	-2.460	-22.118	25.334	1.00	0.00
ATOM	1107	3HG2	THR	71	-3.930	-23.064	25.104	1.00	0.00
ATOM	1108	N	PRO	72	-2.493	-21.195	20.777	1.00	0.00
ATOM	1109	CA	PRO	72	-3.160	-20.167	19.994	1.00	0.00
ATOM	1113	C	PRO	72	-4.676	-20.225	20.180	1.00	0.00
ATOM	1114	O	PRO	72	-5.175	-20.974	21.024	1.00	0.00
ATOM	1110	CB	PRO	72	-2.787	-20.510	18.542	1.00	0.00
ATOM	1111	CG	PRO	72	-2.056	-21.821	18.587	1.00	0.00
ATOM	1112	CD	PRO	72	-2.240	-22.388	19.967	1.00	0.00
ATOM	1115	HA	PRO	72	-2.801	-19.178	20.243	1.00	0.00
ATOM	1116	1HB	PRO	72	-2.159	-19.727	18.142	1.00	0.00
ATOM	1117	2HB	PRO	72	-3.687	-20.586	17.951	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.006	-21.658	18.388	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.472	-22.494	17.853	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.342	-22.892	20.293	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.084	-23.061	19.991	1.00	0.00
ATOM	1122	N	GLY	73	-5.406	-19.447	19.389	1.00	0.00
ATOM	1123	CA	GLY	73	-6.856	-19.443	19.485	1.00	0.00
ATOM	1124	C	GLY	73	-7.367	-18.553	20.601	1.00	0.00
ATOM	1125	O	GLY	73	-7.998	-17.526	20.345	1.00	0.00



ATOM	1126	H	GLY	73	-4.958	-18.876	18.728	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.195	-20.453	19.661	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.266	-19.097	18.548	1.00	0.00
ATOM	1129	N	SER	74	-7.090	-18.947	21.840	1.00	0.00
ATOM	1130	CA	SER	74	-7.516	-18.198	23.019	1.00	0.00
ATOM	1133	C	SER	74	-6.681	-16.932	23.216	1.00	0.00
ATOM	1134	O	SER	74	-6.198	-16.647	24.311	1.00	0.00
ATOM	1131	CB	SER	74	-7.410	-19.099	24.248	1.00	0.00
ATOM	1132	OG	SER	74	-6.959	-20.395	23.879	1.00	0.00
ATOM	1135	H	SER	74	-6.578	-19.778	21.971	1.00	0.00
ATOM	1136	HA	SER	74	-8.549	-17.909	22.882	1.00	0.00
ATOM	1137	1HB	SER	74	-8.380	-19.187	24.715	1.00	0.00
ATOM	1138	2HB	SER	74	-6.709	-18.672	24.949	1.00	0.00
ATOM	1139	HG	SER	74	-7.655	-21.037	24.046	1.00	0.00
ATOM	1140	N	ALA	75	-6.525	-16.169	22.148	1.00	0.00
ATOM	1141	CA	ALA	75	-5.766	-14.937	22.200	1.00	0.00
ATOM	1143	C	ALA	75	-6.700	-13.737	22.203	1.00	0.00
ATOM	1144	O	ALA	75	-6.297	-12.629	22.551	1.00	0.00
ATOM	1142	CB	ALA	75	-4.794	-14.860	21.036	1.00	0.00
ATOM	1145	H	ALA	75	-6.942	-16.445	21.300	1.00	0.00
ATOM	1146	HA	ALA	75	-5.196	-14.935	23.113	1.00	0.00
ATOM	1147	1HB	ALA	75	-5.170	-14.165	20.298	1.00	0.00
ATOM	1148	2HB	ALA	75	-4.689	-15.838	20.589	1.00	0.00
ATOM	1149	3HB	ALA	75	-3.832	-14.520	21.391	1.00	0.00
ATOM	1150	N	GLN	76	-7.952	-13.964	21.809	1.00	0.00
ATOM	1151	CA	GLN	76	-8.938	-12.888	21.757	1.00	0.00
ATOM	1157	C	GLN	76	-9.219	-12.335	23.136	1.00	0.00
ATOM	1158	O	GLN	76	-9.428	-11.139	23.286	1.00	0.00
ATOM	1152	CB	GLN	76	-10.237	-13.337	21.076	1.00	0.00
ATOM	1153	CG	GLN	76	-10.727	-14.710	21.485	1.00	0.00
ATOM	1154	CD	GLN	76	-11.993	-15.122	20.756	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.247	-16.310	20.556	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.799	-14.148	20.359	1.00	0.00
ATOM	1159	H	GLN	76	-8.215	-14.870	21.542	1.00	0.00
ATOM	1160	HA	GLN	76	-8.503	-12.095	21.165	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.080	-13.339	20.007	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.012	-12.624	21.311	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.925	-14.702	22.539	1.00	0.00
ATOM	1164	2HG	GLN	76	-9.956	-15.433	21.269	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.542	-13.219	20.555	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.621	-14.391	19.878	1.00	0.00
ATOM	1167	N	GLN	77	-9.211	-13.197	24.138	1.00	0.00
ATOM	1168	CA	GLN	77	-9.461	-12.765	25.506	1.00	0.00
ATOM	1174	C	GLN	77	-8.322	-11.886	26.002	1.00	0.00
ATOM	1175	O	GLN	77	-8.546	-10.885	26.675	1.00	0.00
ATOM	1169	CB	GLN	77	-9.644	-13.973	26.430	1.00	0.00
ATOM	1170	CG	GLN	77	-10.786	-14.889	26.021	1.00	0.00
ATOM	1171	CD	GLN	77	-10.346	-16.000	25.084	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.326	-15.893	24.403	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.116	-17.071	25.034	1.00	0.00
ATOM	1176	H	GLN	77	-9.028	-14.152	23.957	1.00	0.00
ATOM	1177	HA	GLN	77	-10.367	-12.177	25.502	1.00	0.00
ATOM	1178	1HB	GLN	77	-9.835	-13.618	27.432	1.00	0.00
ATOM	1179	2HB	GLN	77	-8.731	-14.549	26.430	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.544	-14.298	25.525	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.207	-15.336	26.909	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.925	-17.091	25.601	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.860	-17.798	24.433	1.00	0.00
ATOM	1184	N	ARG	78	-7.098	-12.253	25.647	1.00	0.00
ATOM	1185	CA	ARG	78	-5.933	-11.478	26.048	1.00	0.00
ATOM	1193	C	ARG	78	-5.939	-10.135	25.326	1.00	0.00
ATOM	1194	O	ARG	78	-5.724	-9.085	25.935	1.00	0.00
ATOM	1186	CB	ARG	78	-4.637	-12.236	25.736	1.00	0.00
ATOM	1187	CG	ARG	78	-4.619	-13.671	26.245	1.00	0.00
ATOM	1188	CD	ARG	78	-3.781	-14.569	25.345	1.00	0.00
ATOM	1189	NE	ARG	78	-3.374	-15.803	26.021	1.00	0.00
ATOM	1190	CZ	ARG	78	-3.046	-16.933	25.390	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.064	-16.992	24.062	1.00	0.00
ATOM	1192	NH2	ARG	78	-2.692	-18.000	26.092	1.00	0.00
ATOM	1195	H	ARG	78	-6.979	-13.050	25.095	1.00	0.00
ATOM	1196	HA	ARG	78	-5.999	-11.302	27.111	1.00	0.00
ATOM	1197	1HB	ARG	78	-3.811	-11.707	26.186	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.497	-12.258	24.665	1.00	0.00



ATOM	1199	1HG	ARG	78	-5.631	-14.046	26.272	1.00	0.00
ATOM	1200	2HG	ARG	78	-4.200	-13.684	27.239	1.00	0.00
ATOM	1201	1HD	ARG	78	-2.898	-14.028	25.041	1.00	0.00
ATOM	1202	2HD	ARG	78	-4.363	-14.825	24.473	1.00	0.00
ATOM	1203	HE	ARG	78	-3.346	-15.788	27.003	1.00	0.00
ATOM	1204	1HH1	ARG	78	-3.328	-16.188	23.529	1.00	0.00
ATOM	1205	2HH1	ARG	78	-2.811	-17.841	23.589	1.00	0.00
ATOM	1206	1HH2	ARG	78	-2.670	-17.958	27.102	1.00	0.00
ATOM	1207	2HH2	ARG	78	-2.449	-18.852	25.627	1.00	0.00
ATOM	1208	N	PHE	79	-6.200	-10.184	24.022	1.00	0.00
ATOM	1209	CA	PHE	79	-6.246	-8.982	23.206	1.00	0.00
ATOM	1217	C	PHE	79	-7.339	-8.038	23.690	1.00	0.00
ATOM	1218	O	PHE	79	-7.099	-6.843	23.855	1.00	0.00
ATOM	1210	CB	PHE	79	-6.471	-9.334	21.735	1.00	0.00
ATOM	1211	CG	PHE	79	-5.931	-8.301	20.787	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.569	-8.058	20.709	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.787	-7.566	19.983	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.071	-7.102	19.842	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.295	-6.608	19.118	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.936	-6.376	19.047	1.00	0.00
ATOM	1219	H	PHE	79	-6.369	-11.054	23.601	1.00	0.00
ATOM	1220	HA	PHE	79	-5.293	-8.485	23.301	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.531	-9.433	21.553	1.00	0.00
ATOM	1222	2HB	PHE	79	-5.984	-10.273	21.518	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.851	-7.748	20.037	1.00	0.00
ATOM	1224	HD2	PHE	79	-3.891	-8.626	21.329	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.973	-6.044	18.496	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.008	-6.922	19.789	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.549	-5.627	18.371	1.00	0.00
ATOM	1228	N	THR	80	-8.541	-8.567	23.918	1.00	0.00
ATOM	1229	CA	THR	80	-9.648	-7.735	24.388	1.00	0.00
ATOM	1233	C	THR	80	-9.304	-7.045	25.708	1.00	0.00
ATOM	1234	O	THR	80	-9.732	-5.919	25.944	1.00	0.00
ATOM	1230	CB	THR	80	-10.962	-8.530	24.560	1.00	0.00
ATOM	1231	OG1	THR	80	-10.697	-9.830	25.086	1.00	0.00
ATOM	1232	CG2	THR	80	-11.699	-8.654	23.233	1.00	0.00
ATOM	1235	H	THR	80	-8.686	-9.532	23.764	1.00	0.00
ATOM	1236	HA	THR	80	-9.817	-6.972	23.640	1.00	0.00
ATOM	1237	HB	THR	80	-11.594	-7.997	25.253	1.00	0.00
ATOM	1238	HG1	THR	80	-10.387	-10.405	24.376	1.00	0.00
ATOM	1239	1HG2	THR	80	-12.118	-9.646	23.147	1.00	0.00
ATOM	1240	2HG2	THR	80	-11.008	-8.483	22.421	1.00	0.00
ATOM	1241	3HG2	THR	80	-12.492	-7.923	23.193	1.00	0.00
ATOM	1242	N	GLN	81	-8.522	-7.717	26.557	1.00	0.00
ATOM	1243	CA	GLN	81	-8.121	-7.145	27.843	1.00	0.00
ATOM	1249	C	GLN	81	-7.345	-5.858	27.643	1.00	0.00
ATOM	1250	O	GLN	81	-7.783	-4.786	28.054	1.00	0.00
ATOM	1244	CB	GLN	81	-7.250	-8.122	28.633	1.00	0.00
ATOM	1245	CG	GLN	81	-8.031	-9.243	29.277	1.00	0.00
ATOM	1246	CD	GLN	81	-8.703	-8.841	30.580	1.00	0.00
ATOM	1247	OE1	GLN	81	-9.552	-9.567	31.098	1.00	0.00
ATOM	1248	NE2	GLN	81	-8.335	-7.687	31.126	1.00	0.00
ATOM	1251	H	GLN	81	-8.200	-8.613	26.310	1.00	0.00
ATOM	1252	HA	GLN	81	-9.015	-6.933	28.405	1.00	0.00
ATOM	1253	1HB	GLN	81	-6.733	-7.579	29.410	1.00	0.00
ATOM	1254	2HB	GLN	81	-6.522	-8.558	27.965	1.00	0.00
ATOM	1255	1HG	GLN	81	-7.358	-10.066	29.474	1.00	0.00
ATOM	1256	2HG	GLN	81	-8.790	-9.563	28.582	1.00	0.00
ATOM	1257	1HE2	GLN	81	-7.651	-7.144	30.669	1.00	0.00
ATOM	1258	2HE2	GLN	81	-8.761	-7.418	31.970	1.00	0.00
ATOM	1259	N	VAL	82	-6.186	-5.982	27.012	1.00	0.00
ATOM	1260	CA	VAL	82	-5.320	-4.831	26.758	1.00	0.00
ATOM	1264	C	VAL	82	-6.047	-3.758	25.950	1.00	0.00
ATOM	1265	O	VAL	82	-5.827	-2.567	26.151	1.00	0.00
ATOM	1261	CB	VAL	82	-4.013	-5.236	26.026	1.00	0.00
ATOM	1262	CG1	VAL	82	-4.301	-5.874	24.676	1.00	0.00
ATOM	1263	CG2	VAL	82	-3.094	-4.034	25.858	1.00	0.00
ATOM	1266	H	VAL	82	-5.904	-6.878	26.716	1.00	0.00
ATOM	1267	HA	VAL	82	-5.049	-4.410	27.722	1.00	0.00
ATOM	1268	HB	VAL	82	-3.501	-5.964	26.634	1.00	0.00
ATOM	1269	1HG1	VAL	82	-3.931	-6.889	24.670	1.00	0.00
ATOM	1270	2HG1	VAL	82	-3.812	-5.308	23.898	1.00	0.00
ATOM	1271	3HG1	VAL	82	-5.367	-5.879	24.500	1.00	0.00



ATOM	1272	1HG2	VAL	82	-3.678	-3.175	25.561	1.00	0.00
ATOM	1273	2HG2	VAL	82	-2.356	-4.247	25.100	1.00	0.00
ATOM	1274	3HG2	VAL	82	-2.598	-3.825	26.795	1.00	0.00
ATOM	1275	N	SER	83	-6.918	-4.182	25.046	1.00	0.00
ATOM	1276	CA	SER	83	-7.672	-3.249	24.222	1.00	0.00
ATOM	1279	C	SER	83	-8.672	-2.467	25.066	1.00	0.00
ATOM	1280	O	SER	83	-8.785	-1.247	24.939	1.00	0.00
ATOM	1277	CB	SER	83	-8.398	-3.991	23.100	1.00	0.00
ATOM	1278	OG	SER	83	-7.485	-4.734	22.310	1.00	0.00
ATOM	1281	H	SER	83	-7.058	-5.147	24.935	1.00	0.00
ATOM	1282	HA	SER	83	-6.970	-2.554	23.785	1.00	0.00
ATOM	1283	1HB	SER	83	-8.905	-3.277	22.467	1.00	0.00
ATOM	1284	2HB	SER	83	-9.120	-4.670	23.529	1.00	0.00
ATOM	1285	HG	SER	83	-7.187	-5.506	22.807	1.00	0.00
ATOM	1286	N	ASP	84	-9.393	-3.170	25.931	1.00	0.00
ATOM	1287	CA	ASP	84	-10.383	-2.531	26.790	1.00	0.00
ATOM	1292	C	ASP	84	-9.701	-1.702	27.862	1.00	0.00
ATOM	1293	O	ASP	84	-10.157	-0.610	28.201	1.00	0.00
ATOM	1288	CB	ASP	84	-11.311	-3.571	27.423	1.00	0.00
ATOM	1289	CG	ASP	84	-12.762	-3.122	27.425	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.331	-2.908	26.329	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.337	-2.977	28.520	1.00	0.00
ATOM	1294	H	ASP	84	-9.256	-4.145	25.995	1.00	0.00
ATOM	1295	HA	ASP	84	-10.972	-1.870	26.171	1.00	0.00
ATOM	1296	1HB	ASP	84	-11.005	-3.744	28.444	1.00	0.00
ATOM	1297	2HB	ASP	84	-11.239	-4.494	26.867	1.00	0.00
ATOM	1298	N	GLU	85	-8.590	-2.212	28.379	1.00	0.00
ATOM	1299	CA	GLU	85	-7.836	-1.501	29.397	1.00	0.00
ATOM	1305	C	GLU	85	-7.159	-0.274	28.793	1.00	0.00
ATOM	1306	O	GLU	85	-6.799	0.659	29.506	1.00	0.00
ATOM	1300	CB	GLU	85	-6.809	-2.429	30.056	1.00	0.00
ATOM	1301	CG	GLU	85	-7.167	-2.800	31.489	1.00	0.00
ATOM	1302	CD	GLU	85	-6.777	-4.220	31.865	1.00	0.00
ATOM	1303	OE1	GLU	85	-6.709	-5.092	30.974	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.545	-4.469	33.069	1.00	0.00
ATOM	1307	H	GLU	85	-8.260	-3.084	28.058	1.00	0.00
ATOM	1308	HA	GLU	85	-8.537	-1.168	30.148	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.847	-1.936	30.063	1.00	0.00
ATOM	1310	2HB	GLU	85	-6.736	-3.337	29.477	1.00	0.00
ATOM	1311	1HG	GLU	85	-8.235	-2.693	31.614	1.00	0.00
ATOM	1312	2HG	GLU	85	-6.661	-2.119	32.157	1.00	0.00
ATOM	1313	N	LEU	86	-7.016	-0.270	27.472	1.00	0.00
ATOM	1314	CA	LEU	86	-6.412	0.855	26.770	1.00	0.00
ATOM	1319	C	LEU	86	-7.470	1.916	26.486	1.00	0.00
ATOM	1320	O	LEU	86	-7.217	3.113	26.604	1.00	0.00
ATOM	1315	CB	LEU	86	-5.769	0.395	25.457	1.00	0.00
ATOM	1316	CG	LEU	86	-4.262	0.648	25.340	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.554	0.259	26.626	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.675	-0.118	24.161	1.00	0.00
ATOM	1321	H	LEU	86	-7.340	-1.037	26.955	1.00	0.00
ATOM	1322	HA	LEU	86	-5.652	1.278	27.410	1.00	0.00
ATOM	1323	1HB	LEU	86	-6.261	0.907	24.643	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.944	-0.666	25.349	1.00	0.00
ATOM	1325	HG	LEU	86	-4.094	1.702	25.173	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.386	-0.808	26.635	1.00	0.00
ATOM	1327	2HD1	LEU	86	-4.167	0.534	27.473	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.606	0.773	26.687	1.00	0.00
ATOM	1329	1HD2	LEU	86	-2.640	-0.354	24.365	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.737	0.488	23.269	1.00	0.00
ATOM	1331	3HD2	LEU	86	-4.230	-1.034	24.013	1.00	0.00
ATOM	1332	N	PHE	87	-8.665	1.464	26.123	1.00	0.00
ATOM	1333	CA	PHE	87	-9.769	2.373	25.834	1.00	0.00
ATOM	1341	C	PHE	87	-10.402	2.863	27.131	1.00	0.00
ATOM	1342	O	PHE	87	-11.258	3.747	27.121	1.00	0.00
ATOM	1334	CB	PHE	87	-10.822	1.685	24.960	1.00	0.00
ATOM	1335	CG	PHE	87	-11.808	2.637	24.343	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.407	3.540	23.374	1.00	0.00
ATOM	1337	CD2	PHE	87	-13.135	2.630	24.741	1.00	0.00
ATOM	1338	CE1	PHE	87	-12.311	4.422	22.812	1.00	0.00
ATOM	1339	CE2	PHE	87	-14.043	3.508	24.183	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.630	4.405	23.218	1.00	0.00
ATOM	1343	H	PHE	87	-8.812	0.495	26.055	1.00	0.00
ATOM	1344	HA	PHE	87	-9.367	3.222	25.300	1.00	0.00



ATOM	1345	1HB	PHE	87	-11.373	0.978	25.562	1.00	0.00
ATOM	1346	2HB	PHE	87	-10.326	1.159	24.158	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.375	3.553	23.056	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.458	1.928	25.496	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.985	5.121	22.057	1.00	0.00
ATOM	1350	HE2	PHE	87	-15.074	3.492	24.501	1.00	0.00
ATOM	1351	HZ	PHE	87	-14.340	5.092	22.780	1.00	0.00
ATOM	1352	N	GLN	88	-9.964	2.274	28.242	1.00	0.00
ATOM	1353	CA	GLN	88	-10.455	2.617	29.575	1.00	0.00
ATOM	1359	C	GLN	88	-10.455	4.128	29.798	1.00	0.00
ATOM	1360	O	GLN	88	-11.349	4.668	30.453	1.00	0.00
ATOM	1354	CB	GLN	88	-9.588	1.935	30.635	1.00	0.00
ATOM	1355	CG	GLN	88	-10.115	2.071	32.052	1.00	0.00
ATOM	1356	CD	GLN	88	-9.149	1.513	33.079	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.349	0.418	33.605	1.00	0.00
ATOM	1358	NE2	GLN	88	-8.092	2.256	33.369	1.00	0.00
ATOM	1361	H	GLN	88	-9.283	1.573	28.159	1.00	0.00
ATOM	1362	HA	GLN	88	-11.467	2.251	29.661	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.598	2.366	30.602	1.00	0.00
ATOM	1364	2HB	GLN	88	-9.518	0.883	30.403	1.00	0.00
ATOM	1365	1HG	GLN	88	-11.050	1.537	32.130	1.00	0.00
ATOM	1366	2HG	GLN	88	-10.279	3.118	32.265	1.00	0.00
ATOM	1367	1HE2	GLN	88	-7.989	3.116	32.911	1.00	0.00
ATOM	1368	2HE2	GLN	88	-7.455	1.913	34.030	1.00	0.00
ATOM	1369	N	GLY	89	-9.458	4.808	29.247	1.00	0.00
ATOM	1370	CA	GLY	89	-9.386	6.243	29.399	1.00	0.00
ATOM	1371	C	GLY	89	-8.120	6.831	28.821	1.00	0.00
ATOM	1372	O	GLY	89	-7.323	7.424	29.547	1.00	0.00
ATOM	1373	H	GLY	89	-8.776	4.330	28.732	1.00	0.00
ATOM	1374	1HA	GLY	89	-9.434	6.484	30.450	1.00	0.00
ATOM	1375	2HA	GLY	89	-10.234	6.688	28.901	1.00	0.00
ATOM	1376	N	GLY	90	-7.929	6.689	27.516	1.00	0.00
ATOM	1377	CA	GLY	90	-6.745	7.251	26.903	1.00	0.00
ATOM	1378	C	GLY	90	-6.427	6.722	25.511	1.00	0.00
ATOM	1379	O	GLY	90	-5.284	6.337	25.257	1.00	0.00
ATOM	1380	H	GLY	90	-8.596	6.220	26.973	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.903	7.049	27.546	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.871	8.320	26.836	1.00	0.00
ATOM	1383	N	PRO	91	-7.385	6.723	24.558	1.00	0.00
ATOM	1384	CA	PRO	91	-7.120	6.270	23.194	1.00	0.00
ATOM	1388	C	PRO	91	-6.453	7.362	22.360	1.00	0.00
ATOM	1389	O	PRO	91	-6.737	7.519	21.177	1.00	0.00
ATOM	1385	CB	PRO	91	-8.503	5.958	22.629	1.00	0.00
ATOM	1386	CG	PRO	91	-9.494	6.652	23.499	1.00	0.00
ATOM	1387	CD	PRO	91	-8.770	7.194	24.713	1.00	0.00
ATOM	1390	HA	PRO	91	-6.509	5.378	23.181	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.657	4.892	22.629	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.564	6.337	21.619	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.265	5.955	23.797	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.935	7.459	22.943	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.207	6.797	25.617	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.804	8.272	24.724	1.00	0.00
ATOM	1397	N	ASN	92	-5.578	8.120	23.003	1.00	0.00
ATOM	1398	CA	ASN	92	-4.874	9.220	22.354	1.00	0.00
ATOM	1403	C	ASN	92	-3.890	8.724	21.306	1.00	0.00
ATOM	1404	O	ASN	92	-3.550	7.543	21.281	1.00	0.00
ATOM	1399	CB	ASN	92	-4.144	10.061	23.396	1.00	0.00
ATOM	1400	CG	ASN	92	-4.325	11.546	23.158	1.00	0.00
ATOM	1401	OD1	ASN	92	-4.122	12.032	22.048	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.703	12.270	24.197	1.00	0.00
ATOM	1405	H	ASN	92	-5.410	7.938	23.950	1.00	0.00
ATOM	1406	HA	ASN	92	-5.611	9.838	21.865	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.089	9.834	23.360	1.00	0.00
ATOM	1408	2HB	ASN	92	-4.527	9.822	24.377	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.847	11.818	25.054	1.00	0.00
ATOM	1410	2HD2	ASN	92	-4.817	13.237	24.070	1.00	0.00
ATOM	1411	N	TRP	93	-3.432	9.639	20.448	1.00	0.00
ATOM	1412	CA	TRP	93	-2.481	9.310	19.381	1.00	0.00
ATOM	1423	C	TRP	93	-1.240	8.615	19.934	1.00	0.00
ATOM	1424	O	TRP	93	-0.613	7.817	19.243	1.00	0.00
ATOM	1413	CB	TRP	93	-2.059	10.566	18.611	1.00	0.00
ATOM	1414	CG	TRP	93	-3.183	11.510	18.308	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.320	12.782	18.779	1.00	0.00



ATOM	1416	CD2 TRP	93	-4.321	11.271	17.464	1.00	0.00
ATOM	1417	NE1 TRP	93	-4.466	13.349	18.284	1.00	0.00
ATOM	1418	CE2 TRP	93	-5.099	12.444	17.478	1.00	0.00
ATOM	1419	CE3 TRP	93	-4.760	10.185	16.698	1.00	0.00
ATOM	1420	CZ2 TRP	93	-6.287	12.562	16.761	1.00	0.00
ATOM	1421	CZ3 TRP	93	-5.941	10.308	15.984	1.00	0.00
ATOM	1422	CH2 TRP	93	-6.690	11.488	16.023	1.00	0.00
ATOM	1425	H TRP	93	-3.748	10.566	20.532	1.00	0.00
ATOM	1426	HA TRP	93	-2.976	8.635	18.698	1.00	0.00
ATOM	1427	1HB TRP	93	-1.613	10.266	17.673	1.00	0.00
ATOM	1428	2HB TRP	93	-1.325	11.104	19.193	1.00	0.00
ATOM	1429	HD1 TRP	93	-2.619	13.262	19.444	1.00	0.00
ATOM	1430	HE1 TRP	93	-4.781	14.263	18.475	1.00	0.00
ATOM	1431	HE3 TRP	93	-4.196	9.267	16.657	1.00	0.00
ATOM	1432	HZ2 TRP	93	-6.877	13.467	16.777	1.00	0.00
ATOM	1433	HZ3 TRP	93	-6.298	9.484	15.385	1.00	0.00
ATOM	1434	HH2 TRP	93	-7.605	11.539	15.450	1.00	0.00
ATOM	1435	N GLY	94	-0.901	8.908	21.188	1.00	0.00
ATOM	1436	CA GLY	94	0.250	8.281	21.805	1.00	0.00
ATOM	1437	C GLY	94	0.040	6.789	21.962	1.00	0.00
ATOM	1438	O GLY	94	0.940	5.991	21.713	1.00	0.00
ATOM	1439	H GLY	94	-1.445	9.539	21.699	1.00	0.00
ATOM	1440	1HA GLY	94	0.408	8.718	22.780	1.00	0.00
ATOM	1441	2HA GLY	94	1.120	8.460	21.192	1.00	0.00
ATOM	1442	N ARG	95	-1.171	6.418	22.357	1.00	0.00
ATOM	1443	CA ARG	95	-1.527	5.020	22.530	1.00	0.00
ATOM	1451	C ARG	95	-1.993	4.417	21.211	1.00	0.00
ATOM	1452	O ARG	95	-1.915	3.206	21.020	1.00	0.00
ATOM	1444	CB ARG	95	-2.617	4.872	23.593	1.00	0.00
ATOM	1445	CG ARG	95	-2.409	3.683	24.515	1.00	0.00
ATOM	1446	CD ARG	95	-1.187	3.872	25.401	1.00	0.00
ATOM	1447	NE ARG	95	-0.655	2.596	25.887	1.00	0.00
ATOM	1448	CZ ARG	95	-0.713	2.203	27.161	1.00	0.00
ATOM	1449	NH1 ARG	95	-1.264	2.986	28.077	1.00	0.00
ATOM	1450	NH2 ARG	95	-0.224	1.021	27.519	1.00	0.00
ATOM	1453	H ARG	95	-1.847	7.104	22.523	1.00	0.00
ATOM	1454	HA ARG	95	-0.644	4.493	22.850	1.00	0.00
ATOM	1455	1HB ARG	95	-3.571	4.757	23.101	1.00	0.00
ATOM	1456	2HB ARG	95	-2.639	5.769	24.196	1.00	0.00
ATOM	1457	1HG ARG	95	-2.275	2.795	23.916	1.00	0.00
ATOM	1458	2HG ARG	95	-3.281	3.569	25.142	1.00	0.00
ATOM	1459	1HD ARG	95	-1.464	4.483	26.249	1.00	0.00
ATOM	1460	2HD ARG	95	-0.421	4.376	24.832	1.00	0.00
ATOM	1461	HE ARG	95	-0.244	2.002	25.224	1.00	0.00
ATOM	1462	1HH1 ARG	95	-1.640	3.883	27.820	1.00	0.00
ATOM	1463	2HH1 ARG	95	-1.311	2.684	29.032	1.00	0.00
ATOM	1464	1HH2 ARG	95	0.195	0.418	26.836	1.00	0.00
ATOM	1465	2HH2 ARG	95	-0.279	0.722	28.477	1.00	0.00
ATOM	1466	N LEU	96	-2.464	5.276	20.307	1.00	0.00
ATOM	1467	CA LEU	96	-2.938	4.848	18.990	1.00	0.00
ATOM	1472	C LEU	96	-1.838	4.079	18.269	1.00	0.00
ATOM	1473	O LEU	96	-2.099	3.141	17.507	1.00	0.00
ATOM	1468	CB LEU	96	-3.364	6.069	18.162	1.00	0.00
ATOM	1469	CG LEU	96	-4.379	5.809	17.040	1.00	0.00
ATOM	1470	CD1 LEU	96	-3.664	5.550	15.724	1.00	0.00
ATOM	1471	CD2 LEU	96	-5.300	4.646	17.388	1.00	0.00
ATOM	1474	H LEU	96	-2.493	6.232	20.530	1.00	0.00
ATOM	1475	HA LEU	96	-3.788	4.197	19.132	1.00	0.00
ATOM	1476	1HB LEU	96	-2.479	6.498	17.719	1.00	0.00
ATOM	1477	2HB LEU	96	-3.792	6.796	18.837	1.00	0.00
ATOM	1478	HG LEU	96	-4.991	6.690	16.913	1.00	0.00
ATOM	1479	1HD1 LEU	96	-2.985	6.364	15.517	1.00	0.00
ATOM	1480	2HD1 LEU	96	-4.390	5.475	14.929	1.00	0.00
ATOM	1481	3HD1 LEU	96	-3.107	4.626	15.793	1.00	0.00
ATOM	1482	1HD2 LEU	96	-5.770	4.278	16.487	1.00	0.00
ATOM	1483	2HD2 LEU	96	-6.059	4.982	18.078	1.00	0.00
ATOM	1484	3HD2 LEU	96	-4.724	3.854	17.842	1.00	0.00
ATOM	1485	N VAL	97	-0.604	4.467	18.559	1.00	0.00
ATOM	1486	CA VAL	97	0.557	3.818	17.986	1.00	0.00
ATOM	1490	C VAL	97	0.576	2.357	18.404	1.00	0.00
ATOM	1491	O VAL	97	0.635	1.454	17.572	1.00	0.00
ATOM	1487	CB VAL	97	1.857	4.479	18.469	1.00	0.00
ATOM	1488	CG1 VAL	97	3.038	3.865	17.753	1.00	0.00



ATOM	1489	CG2	VAL	97	1.818	5.985	18.261	1.00	0.00
ATOM	1492	H	VAL	97	-0.475	5.199	19.203	1.00	0.00
ATOM	1493	HA	VAL	97	0.509	3.890	16.904	1.00	0.00
ATOM	1494	HB	VAL	97	1.966	4.283	19.526	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.941	4.068	18.308	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.119	4.292	16.763	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.895	2.797	17.673	1.00	0.00
ATOM	1498	1HG2	VAL	97	0.794	6.327	18.298	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.244	6.226	17.298	1.00	0.00
ATOM	1500	3HG2	VAL	97	2.389	6.471	19.039	1.00	0.00
ATOM	1501	N	ALA	98	0.508	2.147	19.712	1.00	0.00
ATOM	1502	CA	ALA	98	0.505	0.814	20.286	1.00	0.00
ATOM	1504	C	ALA	98	-0.741	0.041	19.884	1.00	0.00
ATOM	1505	O	ALA	98	-0.709	-1.177	19.807	1.00	0.00
ATOM	1503	CB	ALA	98	0.609	0.892	21.802	1.00	0.00
ATOM	1506	H	ALA	98	0.447	2.919	20.309	1.00	0.00
ATOM	1507	HA	ALA	98	1.376	0.291	19.917	1.00	0.00
ATOM	1508	1HB	ALA	98	0.448	-0.088	22.225	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.137	1.576	22.179	1.00	0.00
ATOM	1510	3HB	ALA	98	1.592	1.245	22.078	1.00	0.00
ATOM	1511	N	PHE	99	-1.834	0.752	19.628	1.00	0.00
ATOM	1512	CA	PHE	99	-3.084	0.118	19.233	1.00	0.00
ATOM	1520	C	PHE	99	-2.876	-0.748	17.995	1.00	0.00
ATOM	1521	O	PHE	99	-3.148	-1.949	18.013	1.00	0.00
ATOM	1513	CB	PHE	99	-4.151	1.180	18.938	1.00	0.00
ATOM	1514	CG	PHE	99	-5.031	1.554	20.106	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.828	0.613	20.739	1.00	0.00
ATOM	1516	CD2	PHE	99	-5.074	2.865	20.551	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.647	0.978	21.797	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.890	3.236	21.600	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.678	2.294	22.226	1.00	0.00
ATOM	1522	H	PHE	99	-1.802	1.728	19.706	1.00	0.00
ATOM	1523	HA	PHE	99	-3.410	-0.512	20.045	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.787	0.819	18.149	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.660	2.081	18.603	1.00	0.00
ATOM	1526	HD1	PHE	99	-4.458	3.607	20.064	1.00	0.00
ATOM	1527	HD2	PHE	99	-5.806	-0.414	20.405	1.00	0.00
ATOM	1528	HE1	PHE	99	-5.909	4.263	21.932	1.00	0.00
ATOM	1529	HE2	PHE	99	-7.263	0.237	22.285	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.321	2.588	23.045	1.00	0.00
ATOM	1531	N	PHE	100	-2.386	-0.135	16.923	1.00	0.00
ATOM	1532	CA	PHE	100	-2.146	-0.868	15.685	1.00	0.00
ATOM	1540	C	PHE	100	-0.905	-1.747	15.810	1.00	0.00
ATOM	1541	O	PHE	100	-0.873	-2.869	15.303	1.00	0.00
ATOM	1533	CB	PHE	100	-1.986	0.088	14.500	1.00	0.00
ATOM	1534	CG	PHE	100	-3.289	0.591	13.948	1.00	0.00
ATOM	1535	CD1	PHE	100	-3.944	1.656	14.543	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.857	-0.004	12.833	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.142	2.119	14.034	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.054	0.455	12.321	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.698	1.519	12.922	1.00	0.00
ATOM	1542	H	PHE	100	-2.182	0.828	16.967	1.00	0.00
ATOM	1543	HA	PHE	100	-3.002	-1.502	15.509	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.467	-0.427	13.704	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.404	0.941	14.804	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.354	-0.836	12.362	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.510	2.128	15.412	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.486	-0.016	11.450	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.643	2.952	14.507	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.634	1.879	12.524	1.00	0.00
ATOM	1551	N	VAL	101	0.115	-1.223	16.481	1.00	0.00
ATOM	1552	CA	VAL	101	1.370	-1.943	16.670	1.00	0.00
ATOM	1556	C	VAL	101	1.163	-3.257	17.430	1.00	0.00
ATOM	1557	O	VAL	101	1.779	-4.267	17.090	1.00	0.00
ATOM	1553	CB	VAL	101	2.417	-1.060	17.401	1.00	0.00
ATOM	1554	CG1	VAL	101	3.461	-1.899	18.131	1.00	0.00
ATOM	1555	CG2	VAL	101	3.094	-0.124	16.412	1.00	0.00
ATOM	1558	H	VAL	101	0.025	-0.320	16.855	1.00	0.00
ATOM	1559	HA	VAL	101	1.761	-2.175	15.688	1.00	0.00
ATOM	1560	HB	VAL	101	1.899	-0.455	18.132	1.00	0.00
ATOM	1561	1HG1	VAL	101	3.916	-1.308	18.912	1.00	0.00
ATOM	1562	2HG1	VAL	101	4.222	-2.216	17.432	1.00	0.00
ATOM	1563	3HG1	VAL	101	2.987	-2.767	18.565	1.00	0.00



ATOM	1564	1HG2	VAL	101	3.961	0.324	16.875	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.402	0.651	16.117	1.00	0.00
ATOM	1566	3HG2	VAL	101	3.402	-0.682	15.539	1.00	0.00
ATOM	1567	N	PHE	102	0.302	-3.242	18.448	1.00	0.00
ATOM	1568	CA	PHE	102	0.036	-4.439	19.245	1.00	0.00
ATOM	1576	C	PHE	102	-0.395	-5.606	18.368	1.00	0.00
ATOM	1577	O	PHE	102	0.173	-6.695	18.445	1.00	0.00
ATOM	1569	CB	PHE	102	-1.047	-4.158	20.290	1.00	0.00
ATOM	1570	CG	PHE	102	-0.537	-4.115	21.703	1.00	0.00
ATOM	1571	CD1	PHE	102	0.026	-2.959	22.218	1.00	0.00
ATOM	1572	CD2	PHE	102	-0.632	-5.229	22.518	1.00	0.00
ATOM	1573	CE1	PHE	102	0.485	-2.916	23.520	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.176	-5.192	23.821	1.00	0.00
ATOM	1575	CZ	PHE	102	0.383	-4.034	24.323	1.00	0.00
ATOM	1578	H	PHE	102	-0.168	-2.400	18.677	1.00	0.00
ATOM	1579	HA	PHE	102	0.950	-4.708	19.752	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.799	-4.931	20.233	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.505	-3.203	20.077	1.00	0.00
ATOM	1582	HD1	PHE	102	-1.068	-6.137	22.126	1.00	0.00
ATOM	1583	HD2	PHE	102	0.106	-2.084	21.590	1.00	0.00
ATOM	1584	HE1	PHE	102	-0.256	-6.068	24.447	1.00	0.00
ATOM	1585	HE2	PHE	102	0.923	-2.008	23.909	1.00	0.00
ATOM	1586	HZ	PHE	102	0.738	-4.004	25.342	1.00	0.00
ATOM	1587	N	GLY	103	-1.403	-5.377	17.539	1.00	0.00
ATOM	1588	CA	GLY	103	-1.889	-6.429	16.672	1.00	0.00
ATOM	1589	C	GLY	103	-0.962	-6.716	15.510	1.00	0.00
ATOM	1590	O	GLY	103	-0.796	-7.870	15.128	1.00	0.00
ATOM	1591	H	GLY	103	-1.822	-4.488	17.523	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.853	-6.150	16.288	1.00	0.00
ATOM	1593	2HA	GLY	103	-2.001	-7.332	17.253	1.00	0.00
ATOM	1594	N	ALA	104	-0.361	-5.675	14.943	1.00	0.00
ATOM	1595	CA	ALA	104	0.551	-5.842	13.813	1.00	0.00
ATOM	1597	C	ALA	104	1.751	-6.692	14.209	1.00	0.00
ATOM	1598	O	ALA	104	2.138	-7.607	13.481	1.00	0.00
ATOM	1596	CB	ALA	104	1.006	-4.488	13.286	1.00	0.00
ATOM	1599	H	ALA	104	-0.537	-4.770	15.288	1.00	0.00
ATOM	1600	HA	ALA	104	0.013	-6.352	13.020	1.00	0.00
ATOM	1601	1HB	ALA	104	0.292	-3.730	13.574	1.00	0.00
ATOM	1602	2HB	ALA	104	1.076	-4.525	12.209	1.00	0.00
ATOM	1603	3HB	ALA	104	1.974	-4.248	13.702	1.00	0.00
ATOM	1604	N	ALA	105	2.327	-6.405	15.373	1.00	0.00
ATOM	1605	CA	ALA	105	3.465	-7.170	15.857	1.00	0.00
ATOM	1607	C	ALA	105	3.020	-8.589	16.191	1.00	0.00
ATOM	1608	O	ALA	105	3.727	-9.559	15.915	1.00	0.00
ATOM	1606	CB	ALA	105	4.090	-6.503	17.076	1.00	0.00
ATOM	1609	H	ALA	105	1.966	-5.671	15.927	1.00	0.00
ATOM	1610	HA	ALA	105	4.206	-7.208	15.070	1.00	0.00
ATOM	1611	1HB	ALA	105	3.776	-5.471	17.121	1.00	0.00
ATOM	1612	2HB	ALA	105	5.167	-6.550	17.001	1.00	0.00
ATOM	1613	3HB	ALA	105	3.769	-7.017	17.971	1.00	0.00
ATOM	1614	N	LEU	106	1.824	-8.693	16.770	1.00	0.00
ATOM	1615	CA	LEU	106	1.248	-9.981	17.138	1.00	0.00
ATOM	1620	C	LEU	106	1.086	-10.862	15.908	1.00	0.00
ATOM	1621	O	LEU	106	1.377	-12.057	15.940	1.00	0.00
ATOM	1616	CB	LEU	106	-0.113	-9.766	17.811	1.00	0.00
ATOM	1617	CG	LEU	106	-0.413	-10.676	19.003	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.900	-9.850	20.182	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.445	-11.730	18.627	1.00	0.00
ATOM	1622	H	LEU	106	1.306	-7.874	16.945	1.00	0.00
ATOM	1623	HA	LEU	106	1.917	-10.462	17.831	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.887	-9.909	17.071	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.157	-8.742	18.154	1.00	0.00
ATOM	1626	HG	LEU	106	0.494	-11.182	19.301	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.969	-9.715	20.111	1.00	0.00
ATOM	1628	2HD1	LEU	106	-0.414	-8.885	20.169	1.00	0.00
ATOM	1629	3HD1	LEU	106	-0.661	-10.360	21.103	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.687	-11.640	17.579	1.00	0.00
ATOM	1631	2HD2	LEU	106	-2.339	-11.585	19.218	1.00	0.00
ATOM	1632	3HD2	LEU	106	-1.042	-12.713	18.820	1.00	0.00
ATOM	1633	N	CYS	107	0.622	-10.246	14.832	1.00	0.00
ATOM	1634	CA	CYS	107	0.398	-10.924	13.563	1.00	0.00
ATOM	1637	C	CYS	107	1.714	-11.331	12.908	1.00	0.00
ATOM	1638	O	CYS	107	1.821	-12.411	12.327	1.00	0.00



ATOM	1635	CB	CYS	107	-0.397	-10.006	12.632	1.00	0.00
ATOM	1636	SG	CYS	107	-2.082	-9.667	13.191	1.00	0.00
ATOM	1639	H	CYS	107	0.418	-9.292	14.896	1.00	0.00
ATOM	1640	HA	CYS	107	-0.182	-11.812	13.755	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.457	-10.456	11.655	1.00	0.00
ATOM	1642	2HB	CYS	107	0.116	-9.061	12.551	1.00	0.00
ATOM	1643	HG	CYS	107	-1.999	-8.880	14.255	1.00	0.00
ATOM	1644	N	ALA	108	2.713	-10.465	13.000	1.00	0.00
ATOM	1645	CA	ALA	108	4.017	-10.738	12.409	1.00	0.00
ATOM	1647	C	ALA	108	4.626	-12.013	12.973	1.00	0.00
ATOM	1648	O	ALA	108	5.256	-12.787	12.247	1.00	0.00
ATOM	1646	CB	ALA	108	4.958	-9.561	12.628	1.00	0.00
ATOM	1649	H	ALA	108	2.570	-9.616	13.471	1.00	0.00
ATOM	1650	HA	ALA	108	3.878	-10.862	11.344	1.00	0.00
ATOM	1651	1HB	ALA	108	4.562	-8.921	13.402	1.00	0.00
ATOM	1652	2HB	ALA	108	5.053	-8.999	11.709	1.00	0.00
ATOM	1653	3HB	ALA	108	5.929	-9.928	12.925	1.00	0.00
ATOM	1654	N	GLU	109	4.449	-12.239	14.268	1.00	0.00
ATOM	1655	CA	GLU	109	5.010	-13.425	14.888	1.00	0.00
ATOM	1661	C	GLU	109	4.104	-14.648	14.737	1.00	0.00
ATOM	1662	O	GLU	109	4.556	-15.775	14.940	1.00	0.00
ATOM	1656	CB	GLU	109	5.349	-13.181	16.352	1.00	0.00
ATOM	1657	CG	GLU	109	6.791	-12.744	16.543	1.00	0.00
ATOM	1658	CD	GLU	109	7.496	-13.514	17.638	1.00	0.00
ATOM	1659	OE1	GLU	109	7.299	-14.748	17.715	1.00	0.00
ATOM	1660	OE2	GLU	109	8.266	-12.905	18.399	1.00	0.00
ATOM	1663	H	GLU	109	3.946	-11.593	14.813	1.00	0.00
ATOM	1664	HA	GLU	109	5.932	-13.636	14.366	1.00	0.00
ATOM	1665	1HB	GLU	109	5.194	-14.094	16.908	1.00	0.00
ATOM	1666	2HB	GLU	109	4.700	-12.411	16.743	1.00	0.00
ATOM	1667	1HG	GLU	109	6.805	-11.694	16.795	1.00	0.00
ATOM	1668	2HG	GLU	109	7.325	-12.895	15.617	1.00	0.00
ATOM	1669	N	SER	110	2.844	-14.450	14.366	1.00	0.00
ATOM	1670	CA	SER	110	1.945	-15.588	14.187	1.00	0.00
ATOM	1673	C	SER	110	2.138	-16.205	12.803	1.00	0.00
ATOM	1674	O	SER	110	1.853	-17.383	12.595	1.00	0.00
ATOM	1671	CB	SER	110	0.483	-15.182	14.385	1.00	0.00
ATOM	1672	OG	SER	110	0.325	-13.782	14.334	1.00	0.00
ATOM	1675	H	SER	110	2.515	-13.538	14.197	1.00	0.00
ATOM	1676	HA	SER	110	2.207	-16.328	14.930	1.00	0.00
ATOM	1677	1HB	SER	110	0.142	-15.535	15.348	1.00	0.00
ATOM	1678	2HB	SER	110	-0.120	-15.626	13.607	1.00	0.00
ATOM	1679	HG	SER	110	0.669	-13.387	15.145	1.00	0.00
ATOM	1680	N	VAL	111	2.628	-15.398	11.861	1.00	0.00
ATOM	1681	CA	VAL	111	2.862	-15.858	10.493	1.00	0.00
ATOM	1685	C	VAL	111	4.021	-16.855	10.432	1.00	0.00
ATOM	1686	O	VAL	111	4.018	-17.779	9.620	1.00	0.00
ATOM	1682	CB	VAL	111	3.151	-14.673	9.537	1.00	0.00
ATOM	1683	CG1	VAL	111	3.466	-15.164	8.129	1.00	0.00
ATOM	1684	CG2	VAL	111	1.969	-13.719	9.505	1.00	0.00
ATOM	1687	H	VAL	111	2.832	-14.466	12.094	1.00	0.00
ATOM	1688	HA	VAL	111	1.962	-16.352	10.153	1.00	0.00
ATOM	1689	HB	VAL	111	4.011	-14.132	9.908	1.00	0.00
ATOM	1690	1HG1	VAL	111	4.455	-14.832	7.846	1.00	0.00
ATOM	1691	2HG1	VAL	111	2.741	-14.762	7.438	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.427	-16.243	8.106	1.00	0.00
ATOM	1693	1HG2	VAL	111	2.158	-12.938	8.784	1.00	0.00
ATOM	1694	2HG2	VAL	111	1.834	-13.281	10.484	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.077	-14.259	9.226	1.00	0.00
ATOM	1696	N	ASN	112	5.010	-16.668	11.297	1.00	0.00
ATOM	1697	CA	ASN	112	6.167	-17.561	11.327	1.00	0.00
ATOM	1702	C	ASN	112	5.890	-18.793	12.184	1.00	0.00
ATOM	1703	O	ASN	112	6.750	-19.659	12.343	1.00	0.00
ATOM	1698	CB	ASN	112	7.425	-16.832	11.822	1.00	0.00
ATOM	1699	CG	ASN	112	7.300	-16.281	13.233	1.00	0.00
ATOM	1700	OD1	ASN	112	7.174	-17.025	14.206	1.00	0.00
ATOM	1701	ND2	ASN	112	7.344	-14.964	13.355	1.00	0.00
ATOM	1704	H	ASN	112	4.962	-15.920	11.927	1.00	0.00
ATOM	1705	HA	ASN	112	6.339	-17.893	10.312	1.00	0.00
ATOM	1706	1HB	ASN	112	7.636	-16.009	11.153	1.00	0.00
ATOM	1707	2HB	ASN	112	8.258	-17.520	11.802	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.452	-14.424	12.543	1.00	0.00
ATOM	1709	2HD2	ASN	112	7.273	-14.580	14.254	1.00	0.00



ATOM	1710	N	LYS	113	4.685	-18.871	12.728	1.00	0.00
ATOM	1711	CA	LYS	113	4.297	-20.001	13.557	1.00	0.00
ATOM	1717	C	LYS	113	2.996	-20.613	13.048	1.00	0.00
ATOM	1718	O	LYS	113	2.489	-20.230	11.995	1.00	0.00
ATOM	1712	CB	LYS	113	4.148	-19.562	15.016	1.00	0.00
ATOM	1713	CG	LYS	113	5.453	-19.596	15.798	1.00	0.00
ATOM	1714	CD	LYS	113	5.245	-19.206	17.254	1.00	0.00
ATOM	1715	CE	LYS	113	5.296	-17.697	17.445	1.00	0.00
ATOM	1716	NZ	LYS	113	6.547	-17.106	16.899	1.00	0.00
ATOM	1719	H	LYS	113	4.034	-18.157	12.557	1.00	0.00
ATOM	1720	HA	LYS	113	5.080	-20.742	13.492	1.00	0.00
ATOM	1721	1HB	LYS	113	3.443	-20.216	15.507	1.00	0.00
ATOM	1722	2HB	LYS	113	3.766	-18.552	15.039	1.00	0.00
ATOM	1723	1HG	LYS	113	6.148	-18.906	15.347	1.00	0.00
ATOM	1724	2HG	LYS	113	5.859	-20.595	15.758	1.00	0.00
ATOM	1725	1HD	LYS	113	6.020	-19.661	17.852	1.00	0.00
ATOM	1726	2HD	LYS	113	4.281	-19.568	17.577	1.00	0.00
ATOM	1727	1HE	LYS	113	5.236	-17.478	18.501	1.00	0.00
ATOM	1728	2HE	LYS	113	4.451	-17.255	16.938	1.00	0.00
ATOM	1729	1HZ	LYS	113	6.523	-17.106	15.856	1.00	0.00
ATOM	1730	2HZ	LYS	113	7.373	-17.652	17.216	1.00	0.00
ATOM	1731	3HZ	LYS	113	6.656	-16.119	17.232	1.00	0.00
ATOM	1732	N	GLU	114	2.457	-21.566	13.796	1.00	0.00
ATOM	1733	CA	GLU	114	1.216	-22.233	13.417	1.00	0.00
ATOM	1739	C	GLU	114	0.004	-21.423	13.879	1.00	0.00
ATOM	1740	O	GLU	114	-0.845	-21.922	14.619	1.00	0.00
ATOM	1734	CB	GLU	114	1.162	-23.636	14.030	1.00	0.00
ATOM	1735	CG	GLU	114	2.466	-24.410	13.915	1.00	0.00
ATOM	1736	CD	GLU	114	2.385	-25.778	14.559	1.00	0.00
ATOM	1737	OE1	GLU	114	2.602	-25.881	15.783	1.00	0.00
ATOM	1738	OE2	GLU	114	2.096	-26.757	13.838	1.00	0.00
ATOM	1741	H	GLU	114	2.903	-21.830	14.626	1.00	0.00
ATOM	1742	HA	GLU	114	1.195	-22.315	12.341	1.00	0.00
ATOM	1743	1HB	GLU	114	0.389	-24.202	13.533	1.00	0.00
ATOM	1744	2HB	GLU	114	0.914	-23.549	15.077	1.00	0.00
ATOM	1745	1HG	GLU	114	3.250	-23.845	14.398	1.00	0.00
ATOM	1746	2HG	GLU	114	2.704	-24.535	12.870	1.00	0.00
ATOM	1747	N	MET	115	-0.069	-20.167	13.459	1.00	0.00
ATOM	1748	CA	MET	115	-1.170	-19.297	13.853	1.00	0.00
ATOM	1753	C	MET	115	-1.706	-18.521	12.658	1.00	0.00
ATOM	1754	O	MET	115	-1.976	-17.323	12.753	1.00	0.00
ATOM	1749	CB	MET	115	-0.715	-18.327	14.946	1.00	0.00
ATOM	1750	CG	MET	115	-0.490	-18.986	16.296	1.00	0.00
ATOM	1751	SD	MET	115	1.257	-19.135	16.713	1.00	0.00
ATOM	1752	CE	MET	115	1.265	-20.695	17.594	1.00	0.00
ATOM	1755	H	MET	115	0.644	-19.811	12.879	1.00	0.00
ATOM	1756	HA	MET	115	-1.960	-19.922	14.245	1.00	0.00
ATOM	1757	1HB	MET	115	-1.467	-17.561	15.065	1.00	0.00
ATOM	1758	2HB	MET	115	0.212	-17.866	14.636	1.00	0.00
ATOM	1759	1HG	MET	115	-0.927	-19.974	16.276	1.00	0.00
ATOM	1760	2HG	MET	115	-0.977	-18.393	17.056	1.00	0.00
ATOM	1761	1HE	MET	115	0.464	-20.706	18.317	1.00	0.00
ATOM	1762	2HE	MET	115	2.210	-20.817	18.105	1.00	0.00
ATOM	1763	3HE	MET	115	1.126	-21.505	16.891	1.00	0.00
ATOM	1764	N	GLU	116	-1.857	-19.212	11.537	1.00	0.00
ATOM	1765	CA	GLU	116	-2.359	-18.599	10.307	1.00	0.00
ATOM	1771	C	GLU	116	-3.742	-17.954	10.496	1.00	0.00
ATOM	1772	O	GLU	116	-3.922	-16.781	10.173	1.00	0.00
ATOM	1766	CB	GLU	116	-2.407	-19.629	9.170	1.00	0.00
ATOM	1767	CG	GLU	116	-1.327	-20.695	9.261	1.00	0.00
ATOM	1768	CD	GLU	116	-1.732	-21.995	8.596	1.00	0.00
ATOM	1769	OE1	GLU	116	-1.642	-22.088	7.355	1.00	0.00
ATOM	1770	OE2	GLU	116	-2.135	-22.935	-9.311	1.00	0.00
ATOM	1773	H	GLU	116	-1.624	-20.164	11.532	1.00	0.00
ATOM	1774	HA	GLU	116	-1.661	-17.821	10.034	1.00	0.00
ATOM	1775	1HB	GLU	116	-2.293	-19.111	8.229	1.00	0.00
ATOM	1776	2HB	GLU	116	-3.370	-20.120	9.185	1.00	0.00
ATOM	1777	1HG	GLU	116	-1.120	-20.890	10.304	1.00	0.00
ATOM	1778	2HG	GLU	116	-0.433	-20.326	8.782	1.00	0.00
ATOM	1779	N	PRO	117	-4.754	-18.693	11.012	1.00	0.00
ATOM	1780	CA	PRO	117	-6.101	-18.142	11.207	1.00	0.00
ATOM	1784	C	PRO	117	-6.145	-17.066	12.291	1.00	0.00
ATOM	1785	O	PRO	117	-6.995	-16.177	12.260	1.00	0.00



ATOM	1781	CB	PRO	117	-6.943	-19.354	11.636	1.00	0.00
ATOM	1782	CG	PRO	117	-6.114	-20.551	11.312	1.00	0.00
ATOM	1783	CD	PRO	117	-4.688	-20.106	11.429	1.00	0.00
ATOM	1786	HA	PRO	117	-6.495	-17.737	10.288	1.00	0.00
ATOM	1787	1HB	PRO	117	-7.871	-19.360	11.086	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.147	-19.293	12.695	1.00	0.00
ATOM	1789	1HG	PRO	117	-6.323	-20.881	10.305	1.00	0.00
ATOM	1790	2HG	PRO	117	-6.318	-21.342	12.019	1.00	0.00
ATOM	1791	1HD	PRO	117	-4.057	-20.675	10.762	1.00	0.00
ATOM	1792	2HD	PRO	117	-4.345	-20.195	12.449	1.00	0.00
ATOM	1793	N	LEU	118	-5.230	-17.156	13.246	1.00	0.00
ATOM	1794	CA	LEU	118	-5.170	-16.201	14.346	1.00	0.00
ATOM	1799	C	LEU	118	-4.880	-14.784	13.847	1.00	0.00
ATOM	1800	O	LEU	118	-5.397	-13.813	14.398	1.00	0.00
ATOM	1795	CB	LEU	118	-4.111	-16.634	15.363	1.00	0.00
ATOM	1796	CG	LEU	118	-4.024	-15.766	16.618	1.00	0.00
ATOM	1797	CD1	LEU	118	-4.665	-16.476	17.797	1.00	0.00
ATOM	1798	CD2	LEU	118	-2.576	-15.416	16.925	1.00	0.00
ATOM	1801	H	LEU	118	-4.581	-17.889	13.214	1.00	0.00
ATOM	1802	HA	LEU	118	-6.135	-16.202	14.830	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.148	-16.625	14.879	1.00	0.00
ATOM	1804	2HB	LEU	118	-4.331	-17.647	15.667	1.00	0.00
ATOM	1805	HG	LEU	118	-4.564	-14.846	16.449	1.00	0.00
ATOM	1806	1HD1	LEU	118	-4.338	-17.506	17.819	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.740	-16.442	17.699	1.00	0.00
ATOM	1808	3HD1	LEU	118	-4.371	-15.987	18.715	1.00	0.00
ATOM	1809	1HD2	LEU	118	-2.144	-14.899	16.081	1.00	0.00
ATOM	1810	2HD2	LEU	118	-2.019	-16.321	17.117	1.00	0.00
ATOM	1811	3HD2	LEU	118	-2.538	-14.779	17.795	1.00	0.00
ATOM	1812	N	VAL	119	-4.057	-14.676	12.808	1.00	0.00
ATOM	1813	CA	VAL	119	-3.695	-13.377	12.236	1.00	0.00
ATOM	1817	C	VAL	119	-4.933	-12.579	11.826	1.00	0.00
ATOM	1818	O	VAL	119	-5.088	-11.416	12.204	1.00	0.00
ATOM	1814	CB	VAL	119	-2.773	-13.549	11.006	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.492	-12.209	10.343	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.474	-14.234	11.398	1.00	0.00
ATOM	1819	H	VAL	119	-3.678	-15.490	12.415	1.00	0.00
ATOM	1820	HA	VAL	119	-3.154	-12.820	12.988	1.00	0.00
ATOM	1821	HB	VAL	119	-3.280	-14.177	10.289	1.00	0.00
ATOM	1822	1HG1	VAL	119	-1.788	-12.346	9.536	1.00	0.00
ATOM	1823	2HG1	VAL	119	-2.077	-11.526	11.071	1.00	0.00
ATOM	1824	3HG1	VAL	119	-3.413	-11.800	9.951	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.688	-15.074	12.042	1.00	0.00
ATOM	1826	2HG2	VAL	119	-0.841	-13.532	11.922	1.00	0.00
ATOM	1827	3HG2	VAL	119	-0.967	-14.579	10.510	1.00	0.00
ATOM	1828	N	GLY	120	-5.813	-13.211	11.055	1.00	0.00
ATOM	1829	CA	GLY	120	-7.023	-12.542	10.607	1.00	0.00
ATOM	1830	C	GLY	120	-7.932	-12.163	11.758	1.00	0.00
ATOM	1831	O	GLY	120	-8.606	-11.133	11.711	1.00	0.00
ATOM	1832	H	GLY	120	-5.640	-14.136	10.788	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.558	-13.193	9.937	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.748	-11.644	10.074	1.00	0.00
ATOM	1835	N	GLN	121	-7.942	-12.986	12.798	1.00	0.00
ATOM	1836	CA	GLN	121	-8.766	-12.717	13.965	1.00	0.00
ATOM	1842	C	GLN	121	-8.247	-11.479	14.681	1.00	0.00
ATOM	1843	O	GLN	121	-9.002	-10.562	14.954	1.00	0.00
ATOM	1837	CB	GLN	121	-8.788	-13.913	14.920	1.00	0.00
ATOM	1838	CG	GLN	121	-9.420	-15.186	14.353	1.00	0.00
ATOM	1839	CD	GLN	121	-10.236	-14.965	13.087	1.00	0.00
ATOM	1840	OE1	GLN	121	-9.864	-15.428	12.009	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.355	-14.268	13.204	1.00	0.00
ATOM	1844	H	GLN	121	-7.381	-13.785	12.783	1.00	0.00
ATOM	1845	HA	GLN	121	-9.772	-12.518	13.624	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.343	-13.632	15.805	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.775	-14.143	15.208	1.00	0.00
ATOM	1848	1HG	GLN	121	-10.065	-15.612	15.107	1.00	0.00
ATOM	1849	2HG	GLN	121	-8.631	-15.888	14.126	1.00	0.00
ATOM	1850	1HE2	GLN	121	-11.605	-13.925	14.090	1.00	0.00
ATOM	1851	2HE2	GLN	121	-11.891	-14.118	12.399	1.00	0.00
ATOM	1852	N	VAL	122	-6.952	-11.433	14.958	1.00	0.00
ATOM	1853	CA	VAL	122	-6.370	-10.268	15.619	1.00	0.00
ATOM	1857	C	VAL	122	-6.622	-9.022	14.777	1.00	0.00
ATOM	1858	O	VAL	122	-6.842	-7.930	15.306	1.00	0.00



ATOM	1854	CB	VAL	122	-4.849	-10.443	15.852	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.279	-9.262	16.621	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.563	-11.743	16.587	1.00	0.00
ATOM	1859	H	VAL	122	-6.372	-12.185	14.696	1.00	0.00
ATOM	1860	HA	VAL	122	-6.864	-10.142	16.580	1.00	0.00
ATOM	1861	HB	VAL	122	-4.362	-10.486	14.888	1.00	0.00
ATOM	1862	1HG1	VAL	122	-4.746	-8.350	16.279	1.00	0.00
ATOM	1863	2HG1	VAL	122	-3.213	-9.204	16.454	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.471	-9.392	17.675	1.00	0.00
ATOM	1865	1HG2	VAL	122	-4.296	-12.509	15.873	1.00	0.00
ATOM	1866	2HG2	VAL	122	-5.443	-12.051	17.131	1.00	0.00
ATOM	1867	3HG2	VAL	122	-3.746	-11.593	17.278	1.00	0.00
ATOM	1868	N	GLN	123	-6.625	-9.210	13.465	1.00	0.00
ATOM	1869	CA	GLN	123	-6.882	-8.128	12.531	1.00	0.00
ATOM	1875	C	GLN	123	-8.294	-7.584	12.728	1.00	0.00
ATOM	1876	O	GLN	123	-8.496	-6.371	12.803	1.00	0.00
ATOM	1870	CB	GLN	123	-6.698	-8.620	11.090	1.00	0.00
ATOM	1871	CG	GLN	123	-6.235	-7.544	10.125	1.00	0.00
ATOM	1872	CD	GLN	123	-5.764	-8.116	8.801	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.346	-9.062	8.270	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.700	-7.547	8.259	1.00	0.00
ATOM	1877	H	GLN	123	-6.466	-10.113	13.115	1.00	0.00
ATOM	1878	HA	GLN	123	-6.178	-7.339	12.734	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.638	-9.014	10.733	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.964	-9.414	11.086	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.420	-6.998	10.577	1.00	0.00
ATOM	1882	2HG	GLN	123	-7.058	-6.870	9.936	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.282	-6.802	8.735	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.377	-7.896	7.402	1.00	0.00
ATOM	1885	N	GLU	124	-9.267	-8.485	12.827	1.00	0.00
ATOM	1886	CA	GLU	124	-10.649	-8.076	13.025	1.00	0.00
ATOM	1892	C	GLU	124	-10.879	-7.592	14.454	1.00	0.00
ATOM	1893	O	GLU	124	-11.582	-6.610	14.656	1.00	0.00
ATOM	1887	CB	GLU	124	-11.625	-9.200	12.670	1.00	0.00
ATOM	1888	CG	GLU	124	-11.457	-10.450	13.505	1.00	0.00
ATOM	1889	CD	GLU	124	-12.665	-11.362	13.447	1.00	0.00
ATOM	1890	OE1	GLU	124	-13.451	-11.252	12.480	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.831	-12.190	14.369	1.00	0.00
ATOM	1894	H	GLU	124	-9.049	-9.443	12.770	1.00	0.00
ATOM	1895	HA	GLU	124	-10.831	-7.243	12.359	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.485	-9.464	11.632	1.00	0.00
ATOM	1897	2HB	GLU	124	-12.634	-8.838	12.803	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.290	-10.164	14.532	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.591	-10.984	13.149	1.00	0.00
ATOM	1900	N	TRP	125	-10.271	-8.256	15.445	1.00	0.00
ATOM	1901	CA	TRP	125	-10.431	-7.829	16.836	1.00	0.00
ATOM	1912	C	TRP	125	-10.000	-6.376	16.960	1.00	0.00
ATOM	1913	O	TRP	125	-10.600	-5.588	17.694	1.00	0.00
ATOM	1902	CB	TRP	125	-9.570	-8.657	17.813	1.00	0.00
ATOM	1903	CG	TRP	125	-9.737	-10.149	17.771	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.793	-10.878	17.294	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.778	-11.102	18.243	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.534	-12.225	17.433	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.300	-12.384	18.001	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.518	-10.989	18.838	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.604	-13.546	18.328	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.831	-12.141	19.165	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.371	-13.405	18.903	1.00	0.00
ATOM	1914	H	TRP	125	-9.698	-9.036	15.235	1.00	0.00
ATOM	1915	HA	TRP	125	-11.474	-7.908	17.100	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.778	-8.333	18.818	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.533	-8.454	17.603	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.689	-10.451	16.873	1.00	0.00
ATOM	1919	HE1	TRP	125	-11.134	-12.952	17.167	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.091	-10.022	19.065	1.00	0.00
ATOM	1921	HZ2	TRP	125	-9.006	-14.527	18.132	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.854	-12.073	19.620	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.800	-14.280	19.185	1.00	0.00
ATOM	1924	N	MET	126	-8.950	-6.041	16.225	1.00	0.00
ATOM	1925	CA	MET	126	-8.410	-4.691	16.238	1.00	0.00
ATOM	1930	C	MET	126	-9.308	-3.724	15.482	1.00	0.00
ATOM	1931	O	MET	126	-9.725	-2.701	16.026	1.00	0.00
ATOM	1926	CB	MET	126	-7.008	-4.682	15.627	1.00	0.00



ATOM	1927	CG	MET	126	-6.121	-3.553	16.126	1.00	0.00
ATOM	1928	SD	MET	126	-4.823	-3.123	14.948	1.00	0.00
ATOM	1929	CE	MET	126	-4.231	-4.745	14.468	1.00	0.00
ATOM	1932	H	MET	126	-8.524	-6.731	15.654	1.00	0.00
ATOM	1933	HA	MET	126	-8.351	-4.366	17.263	1.00	0.00
ATOM	1934	1HB	MET	126	-7.098	-4.591	14.554	1.00	0.00
ATOM	1935	2HB	MET	126	-6.523	-5.618	15.859	1.00	0.00
ATOM	1936	1HG	MET	126	-5.661	-3.858	17.054	1.00	0.00
ATOM	1937	2HG	MET	126	-6.735	-2.682	16.298	1.00	0.00
ATOM	1938	1HE	MET	126	-3.373	-4.639	13.821	1.00	0.00
ATOM	1939	2HE	MET	126	-5.014	-5.273	13.945	1.00	0.00
ATOM	1940	3HE	MET	126	-3.949	-5.302	15.350	1.00	0.00
ATOM	1941	N	VAL	127	-9.593	-4.038	14.226	1.00	0.00
ATOM	1942	CA	VAL	127	-10.421	-3.170	13.403	1.00	0.00
ATOM	1946	C	VAL	127	-11.819	-2.978	13.989	1.00	0.00
ATOM	1947	O	VAL	127	-12.371	-1.885	13.897	1.00	0.00
ATOM	1943	CB	VAL	127	-10.513	-3.663	11.935	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.376	-4.908	11.809	1.00	0.00
ATOM	1945	CG2	VAL	127	-11.040	-2.555	11.036	1.00	0.00
ATOM	1948	H	VAL	127	-9.222	-4.863	13.840	1.00	0.00
ATOM	1949	HA	VAL	127	-9.936	-2.203	13.387	1.00	0.00
ATOM	1950	HB	VAL	127	-9.515	-3.913	11.603	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.703	-5.019	10.786	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.236	-4.816	12.455	1.00	0.00
ATOM	1953	3HG1	VAL	127	-10.800	-5.775	12.097	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.211	-2.024	10.594	1.00	0.00
ATOM	1955	2HG2	VAL	127	-11.636	-1.870	11.623	1.00	0.00
ATOM	1956	3HG2	VAL	127	-11.649	-2.985	10.255	1.00	0.00
ATOM	1957	N	GLU	128	-12.388	-4.020	14.604	1.00	0.00
ATOM	1958	CA	GLU	128	-13.719	-3.906	15.191	1.00	0.00
ATOM	1964	C	GLU	128	-13.704	-2.966	16.386	1.00	0.00
ATOM	1965	O	GLU	128	-14.525	-2.057	16.479	1.00	0.00
ATOM	1959	CB	GLU	128	-14.258	-5.276	15.598	1.00	0.00
ATOM	1960	CG	GLU	128	-14.552	-6.178	14.412	1.00	0.00
ATOM	1961	CD	GLU	128	-15.940	-6.776	14.456	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.635	-6.615	15.485	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.344	-7.410	13.460	1.00	0.00
ATOM	1966	H	GLU	128	-11.902	-4.880	14.669	1.00	0.00
ATOM	1967	HA	GLU	128	-14.369	-3.486	14.439	1.00	0.00
ATOM	1968	1HB	GLU	128	-15.174	-5.140	16.156	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.531	-5.765	16.228	1.00	0.00
ATOM	1970	1HG	GLU	128	-13.830	-6.982	14.401	1.00	0.00
ATOM	1971	2HG	GLU	128	-14.458	-5.600	13.507	1.00	0.00
ATOM	1972	N	TYR	129	-12.754	-3.170	17.286	1.00	0.00
ATOM	1973	CA	TYR	129	-12.630	-2.318	18.461	1.00	0.00
ATOM	1982	C	TYR	129	-12.417	-0.870	18.039	1.00	0.00
ATOM	1983	O	TYR	129	-12.878	0.070	18.694	1.00	0.00
ATOM	1974	CB	TYR	129	-11.453	-2.773	19.325	1.00	0.00
ATOM	1975	CG	TYR	129	-11.602	-2.381	20.776	1.00	0.00
ATOM	1976	CD1	TYR	129	-11.193	-1.130	21.215	1.00	0.00
ATOM	1977	CD2	TYR	129	-12.167	-3.251	21.698	1.00	0.00
ATOM	1978	CE1	TYR	129	-11.339	-0.756	22.532	1.00	0.00
ATOM	1979	CE2	TYR	129	-12.321	-2.882	23.019	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.905	-1.634	23.430	1.00	0.00
ATOM	1981	OH	TYR	129	-12.061	-1.253	24.739	1.00	0.00
ATOM	1984	H	TYR	129	-12.110	-3.902	17.151	1.00	0.00
ATOM	1985	HA	TYR	129	-13.542	-2.392	19.032	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.546	-2.322	18.950	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.364	-3.846	19.269	1.00	0.00
ATOM	1988	HD1	TYR	129	-12.489	-4.229	21.370	1.00	0.00
ATOM	1989	HD2	TYR	129	-10.750	-0.444	20.508	1.00	0.00
ATOM	1990	HE1	TYR	129	-12.763	-3.570	23.724	1.00	0.00
ATOM	1991	HE2	TYR	129	-11.014	0.221	22.854	1.00	0.00
ATOM	1992	HH	TYR	129	-12.485	-1.971	25.239	1.00	0.00
ATOM	1993	N	LEU	130	-11.704	-0.710	16.941	1.00	0.00
ATOM	1994	CA	LEU	130	-11.393	0.603	16.411	1.00	0.00
ATOM	1999	C	LEU	130	-12.604	1.278	15.768	1.00	0.00
ATOM	2000	O	LEU	130	-12.963	2.389	16.146	1.00	0.00
ATOM	1995	CB	LEU	130	-10.259	0.499	15.397	1.00	0.00
ATOM	1996	CG	LEU	130	-8.902	0.998	15.890	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.830	-0.056	15.662	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.533	2.296	15.191	1.00	0.00
ATOM	2001	H	LEU	130	-11.364	-1.510	16.475	1.00	0.00



ATOM	2002	HA	LEU	130	-11.058	1.215	17.235	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.538	1.078	14.532	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.155	-0.539	15.105	1.00	0.00
ATOM	2005	HG	LEU	130	-8.961	1.193	16.949	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.432	0.045	14.664	1.00	0.00
ATOM	2007	2HD1	LEU	130	-8.262	-1.038	15.780	1.00	0.00
ATOM	2008	3HD1	LEU	130	-7.035	0.077	16.382	1.00	0.00
ATOM	2009	1HD2	LEU	130	-8.062	2.962	15.896	1.00	0.00
ATOM	2010	2HD2	LEU	130	-9.427	2.758	14.798	1.00	0.00
ATOM	2011	3HD2	LEU	130	-7.850	2.086	14.380	1.00	0.00
ATOM	2012	N	GLU	131	-13.216	0.632	14.785	1.00	0.00
ATOM	2013	CA	GLU	131	-14.362	1.221	14.090	1.00	0.00
ATOM	2019	C	GLU	131	-15.537	1.483	15.034	1.00	0.00
ATOM	2020	O	GLU	131	-16.260	2.467	14.876	1.00	0.00
ATOM	2014	CB	GLU	131	-14.807	0.338	12.913	1.00	0.00
ATOM	2015	CG	GLU	131	-15.181	-1.084	13.303	1.00	0.00
ATOM	2016	CD	GLU	131	-16.655	-1.377	13.115	1.00	0.00
ATOM	2017	OE1	GLU	131	-17.436	-1.129	14.058	1.00	0.00
ATOM	2018	OE2	GLU	131	-17.037	-1.856	12.031	1.00	0.00
ATOM	2021	H	GLU	131	-12.881	-0.251	14.502	1.00	0.00
ATOM	2022	HA	GLU	131	-14.035	2.172	13.696	1.00	0.00
ATOM	2023	1HB	GLU	131	-14.003	0.289	12.194	1.00	0.00
ATOM	2024	2HB	GLU	131	-15.666	0.794	12.444	1.00	0.00
ATOM	2025	1HG	GLU	131	-14.929	-1.235	14.343	1.00	0.00
ATOM	2026	2HG	GLU	131	-14.614	-1.773	12.694	1.00	0.00
ATOM	2027	N	THR	132	-15.737	0.600	15.996	1.00	0.00
ATOM	2028	CA	THR	132	-16.843	0.741	16.928	1.00	0.00
ATOM	2032	C	THR	132	-16.590	1.792	18.017	1.00	0.00
ATOM	2033	O	THR	132	-17.518	2.495	18.423	1.00	0.00
ATOM	2029	CB	THR	132	-17.172	-0.608	17.598	1.00	0.00
ATOM	2030	OG1	THR	132	-17.226	-1.652	16.616	1.00	0.00
ATOM	2031	CG2	THR	132	-18.499	-0.543	18.339	1.00	0.00
ATOM	2034	H	THR	132	-15.142	-0.178	16.067	1.00	0.00
ATOM	2035	HA	THR	132	-17.710	1.043	16.358	1.00	0.00
ATOM	2036	HB	THR	132	-16.391	-0.836	18.312	1.00	0.00
ATOM	2037	HG1	THR	132	-17.264	-1.260	15.725	1.00	0.00
ATOM	2038	1HG2	THR	132	-18.889	-1.542	18.472	1.00	0.00
ATOM	2039	2HG2	THR	132	-19.203	0.046	17.770	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.347	-0.086	19.307	1.00	0.00
ATOM	2041	N	ARG	133	-15.364	1.886	18.534	1.00	0.00
ATOM	2042	CA	ARG	133	-15.103	2.844	19.613	1.00	0.00
ATOM	2050	C	ARG	133	-13.966	3.825	19.329	1.00	0.00
ATOM	2051	O	ARG	133	-14.088	5.008	19.651	1.00	0.00
ATOM	2043	CB	ARG	133	-14.820	2.108	20.933	1.00	0.00
ATOM	2044	CG	ARG	133	-15.440	0.719	21.035	1.00	0.00
ATOM	2045	CD	ARG	133	-15.741	0.346	22.482	1.00	0.00
ATOM	2046	NE	ARG	133	-15.977	-1.091	22.650	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.589	-1.797	23.718	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.944	-1.206	24.719	1.00	0.00
ATOM	2049	NH2	ARG	133	-15.850	-3.094	23.789	1.00	0.00
ATOM	2052	H	ARG	133	-14.649	1.294	18.215	1.00	0.00
ATOM	2053	HA	ARG	133	-16.003	3.423	19.741	1.00	0.00
ATOM	2054	1HB	ARG	133	-15.201	2.706	21.749	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.752	2.006	21.048	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.753	-0.003	20.620	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.363	0.705	20.471	1.00	0.00
ATOM	2058	1HD	ARG	133	-16.622	0.885	22.801	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.902	0.637	23.096	1.00	0.00
ATOM	2060	HE	ARG	133	-16.455	-1.560	21.921	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.747	-0.228	24.685	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.634	-1.749	25.515	1.00	0.00
ATOM	2063	1HH2	ARG	133	-16.342	-3.556	23.045	1.00	0.00
ATOM	2064	2HH2	ARG	133	-15.559	-3.624	24.591	1.00	0.00
ATOM	2065	N	LEU	134	-12.856	3.358	18.766	1.00	0.00
ATOM	2066	CA	LEU	134	-11.721	4.247	18.502	1.00	0.00
ATOM	2071	C	LEU	134	-12.099	5.375	17.547	1.00	0.00
ATOM	2072	O	LEU	134	-11.751	6.533	17.776	1.00	0.00
ATOM	2067	CB	LEU	134	-10.536	3.460	17.944	1.00	0.00
ATOM	2068	CG	LEU	134	-9.366	3.257	18.909	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.709	4.587	19.247	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.829	2.547	20.174	1.00	0.00
ATOM	2073	H	LEU	134	-12.787	2.402	18.536	1.00	0.00
ATOM	2074	HA	LEU	134	-11.430	4.686	19.444	1.00	0.00



ATOM	2075	1HB	LEU	134	-10.166	3.975	17.071	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.893	2.488	17.644	1.00	0.00
ATOM	2077	HG	LEU	134	-8.625	2.632	18.431	1.00	0.00
ATOM	2078	1HD1	LEU	134	-9.148	4.989	20.148	1.00	0.00
ATOM	2079	2HD1	LEU	134	-8.860	5.280	18.433	1.00	0.00
ATOM	2080	3HD1	LEU	134	-7.650	4.436	19.399	1.00	0.00
ATOM	2081	1HD2	LEU	134	-10.670	1.911	19.941	1.00	0.00
ATOM	2082	2HD2	LEU	134	-10.124	3.279	20.911	1.00	0.00
ATOM	2083	3HD2	LEU	134	-9.021	1.947	20.566	1.00	0.00
ATOM	2084	N	ALA	135	-12.816	5.029	16.481	1.00	0.00
ATOM	2085	CA	ALA	135	-13.252	5.999	15.488	1.00	0.00
ATOM	2087	C	ALA	135	-14.013	7.151	16.129	1.00	0.00
ATOM	2088	O	ALA	135	-13.899	8.290	15.681	1.00	0.00
ATOM	2086	CB	ALA	135	-14.108	5.322	14.430	1.00	0.00
ATOM	2089	H	ALA	135	-13.056	4.083	16.356	1.00	0.00
ATOM	2090	HA	ALA	135	-12.373	6.396	15.003	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.977	5.930	14.226	1.00	0.00
ATOM	2092	2HB	ALA	135	-14.422	4.353	14.788	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.531	5.203	13.526	1.00	0.00
ATOM	2094	N	ASP	136	-14.776	6.860	17.181	1.00	0.00
ATOM	2095	CA	ASP	136	-15.534	7.901	17.867	1.00	0.00
ATOM	2100	C	ASP	136	-14.595	8.887	18.541	1.00	0.00
ATOM	2101	O	ASP	136	-14.722	10.097	18.346	1.00	0.00
ATOM	2096	CB	ASP	136	-16.502	7.306	18.885	1.00	0.00
ATOM	2097	CG	ASP	136	-17.884	7.908	18.751	1.00	0.00
ATOM	2098	OD1	ASP	136	-18.022	8.927	18.047	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.838	7.355	19.333	1.00	0.00
ATOM	2102	H	ASP	136	-14.824	5.932	17.508	1.00	0.00
ATOM	2103	HA	ASP	136	-16.101	8.437	17.119	1.00	0.00
ATOM	2104	1HB	ASP	136	-16.136	7.503	19.883	1.00	0.00
ATOM	2105	2HB	ASP	136	-16.572	6.239	18.732	1.00	0.00
ATOM	2106	N	TRP	137	-13.626	8.373	19.301	1.00	0.00
ATOM	2107	CA	TRP	137	-12.653	9.228	19.958	1.00	0.00
ATOM	2118	C	TRP	137	-11.930	10.062	18.910	1.00	0.00
ATOM	2119	O	TRP	137	-11.789	11.276	19.048	1.00	0.00
ATOM	2108	CB	TRP	137	-11.643	8.384	20.752	1.00	0.00
ATOM	2109	CG	TRP	137	-10.524	9.193	21.345	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.462	9.689	22.612	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.314	9.602	20.695	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.295	10.392	22.787	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.575	10.351	21.622	1.00	0.00
ATOM	2114	CE3	TRP	137	-8.786	9.407	19.417	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.339	10.908	21.310	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.561	9.960	19.109	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.849	10.701	20.052	1.00	0.00
ATOM	2120	H	TRP	137	-13.551	7.397	19.402	1.00	0.00
ATOM	2121	HA	TRP	137	-13.179	9.889	20.630	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.209	7.643	20.097	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.157	7.885	21.560	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.224	9.542	23.357	1.00	0.00
ATOM	2125	HE1	TRP	137	-9.025	10.851	23.610	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.323	8.837	18.672	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.772	11.481	22.024	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.141	9.820	18.123	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.893	11.117	19.768	1.00	0.00
ATOM	2130	N	ILE	138	-11.478	9.388	17.859	1.00	0.00
ATOM	2131	CA	ILE	138	-10.761	10.032	16.772	1.00	0.00
ATOM	2136	C	ILE	138	-11.592	11.156	16.161	1.00	0.00
ATOM	2137	O	ILE	138	-11.107	12.274	15.993	1.00	0.00
ATOM	2132	CB	ILE	138	-10.363	8.992	15.689	1.00	0.00
ATOM	2133	CG1	ILE	138	-8.970	8.432	15.988	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.398	9.587	14.288	1.00	0.00
ATOM	2135	CD1	ILE	138	-8.955	6.942	16.251	1.00	0.00
ATOM	2138	H	ILE	138	-11.630	8.416	17.821	1.00	0.00
ATOM	2139	HA	ILE	138	-9.854	10.456	17.180	1.00	0.00
ATOM	2140	HB	ILE	138	-11.079	8.186	15.726	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.570	8.927	16.861	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.324	8.624	15.145	1.00	0.00
ATOM	2143	1HG2	ILE	138	-11.320	10.132	14.151	1.00	0.00
ATOM	2144	2HG2	ILE	138	-10.337	8.793	13.558	1.00	0.00
ATOM	2145	3HG2	ILE	138	-9.561	10.259	14.161	1.00	0.00
ATOM	2146	1HD1	ILE	138	-9.035	6.764	17.313	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.031	6.521	15.883	1.00	0.00



ATOM	2148	3HD1	ILE	138	-9.789	6.480	15.744	1.00	0.00
ATOM	2149	N	HIS	139	-12.842	10.852	15.840	1.00	0.00
ATOM	2150	CA	HIS	139	-13.752	11.824	15.248	1.00	0.00
ATOM	2157	C	HIS	139	-13.901	13.064	16.120	1.00	0.00
ATOM	2158	O	HIS	139	-13.979	14.180	15.615	1.00	0.00
ATOM	2151	CB	HIS	139	-15.124	11.184	15.018	1.00	0.00
ATOM	2152	CG	HIS	139	-15.195	10.372	13.763	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.934	9.216	13.647	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.598	10.554	12.565	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.786	8.724	12.433	1.00	0.00
ATOM	2156	NE2	HIS	139	-14.982	9.517	11.751	1.00	0.00
ATOM	2159	H	HIS	139	-13.166	9.938	16.006	1.00	0.00
ATOM	2160	HA	HIS	139	-13.344	12.118	14.293	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.871	11.962	14.956	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.354	10.534	15.850	1.00	0.00
ATOM	2163	HD1	HIS	139	-16.488	8.811	14.351	1.00	0.00
ATOM	2164	HD2	HIS	139	-13.927	11.359	12.304	1.00	0.00
ATOM	2165	HE1	HIS	139	-16.241	7.818	12.060	1.00	0.00
ATOM	2166	HE2	HIS	139	-14.910	9.516	10.763	1.00	0.00
ATOM	2167	N	SER	140	-13.958	12.863	17.424	1.00	0.00
ATOM	2168	CA	SER	140	-14.126	13.971	18.354	1.00	0.00
ATOM	2171	C	SER	140	-12.797	14.620	18.759	1.00	0.00
ATOM	2172	O	SER	140	-12.795	15.678	19.388	1.00	0.00
ATOM	2169	CB	SER	140	-14.877	13.487	19.593	1.00	0.00
ATOM	2170	OG	SER	140	-16.159	12.993	19.240	1.00	0.00
ATOM	2173	H	SER	140	-13.911	11.939	17.774	1.00	0.00
ATOM	2174	HA	SER	140	-14.732	14.716	17.860	1.00	0.00
ATOM	2175	1HB	SER	140	-14.997	14.308	20.285	1.00	0.00
ATOM	2176	2HB	SER	140	-14.316	12.694	20.067	1.00	0.00
ATOM	2177	HG	SER	140	-16.746	13.737	19.060	1.00	0.00
ATOM	2178	N	SER	141	-11.675	13.993	18.430	1.00	0.00
ATOM	2179	CA	SER	141	-10.372	14.539	18.810	1.00	0.00
ATOM	2182	C	SER	141	-9.697	15.322	17.684	1.00	0.00
ATOM	2183	O	SER	141	-8.831	16.155	17.944	1.00	0.00
ATOM	2180	CB	SER	141	-9.451	13.420	19.298	1.00	0.00
ATOM	2181	OG	SER	141	-8.958	13.697	20.599	1.00	0.00
ATOM	2184	H	SER	141	-11.721	13.138	17.949	1.00	0.00
ATOM	2185	HA	SER	141	-10.539	15.215	19.626	1.00	0.00
ATOM	2186	1HB	SER	141	-8.614	13.323	18.622	1.00	0.00
ATOM	2187	2HB	SER	141	-10.000	12.490	19.325	1.00	0.00
ATOM	2188	HG	SER	141	-8.232	14.325	20.535	1.00	0.00
ATOM	2189	N	GLY	142	-10.082	15.061	16.447	1.00	0.00
ATOM	2190	CA	GLY	142	-9.476	15.766	15.328	1.00	0.00
ATOM	2191	C	GLY	142	-9.488	14.929	14.077	1.00	0.00
ATOM	2192	O	GLY	142	-9.476	15.444	12.959	1.00	0.00
ATOM	2193	H	GLY	142	-10.778	14.387	16.286	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.454	16.007	15.578	1.00	0.00
ATOM	2195	2HA	GLY	142	-10.018	16.679	15.146	1.00	0.00
ATOM	2196	N	GLY	143	-9.530	13.628	14.270	1.00	0.00
ATOM	2197	CA	GLY	143	-9.563	12.720	13.152	1.00	0.00
ATOM	2198	C	GLY	143	-8.204	12.195	12.781	1.00	0.00
ATOM	2199	O	GLY	143	-7.184	12.687	13.260	1.00	0.00
ATOM	2200	H	GLY	143	-9.551	13.280	15.192	1.00	0.00
ATOM	2201	1HA	GLY	143	-9.980	13.229	12.302	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.190	11.888	13.399	1.00	0.00
ATOM	2203	N	TRP	144	-8.195	11.198	11.908	1.00	0.00
ATOM	2204	CA	TRP	144	-6.959	10.593	11.440	1.00	0.00
ATOM	2215	C	TRP	144	-6.106	11.649	10.755	1.00	0.00
ATOM	2216	O	TRP	144	-4.879	11.588	10.787	1.00	0.00
ATOM	2205	CB	TRP	144	-7.269	9.437	10.487	1.00	0.00
ATOM	2206	CG	TRP	144	-8.021	8.313	11.144	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.370	8.087	11.112	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.459	7.263	11.935	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.679	6.963	11.845	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.521	6.438	12.354	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.158	6.939	12.332	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.320	5.311	13.145	1.00	0.00
ATOM	2213	CZ3	TRP	144	-5.962	5.819	13.116	1.00	0.00
ATOM	2214	CH2	TRP	144	-7.037	5.018	13.515	1.00	0.00
ATOM	2217	H	TRP	144	-9.047	10.863	11.558	1.00	0.00
ATOM	2218	HA	TRP	144	-6.420	10.217	12.298	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.342	9.039	10.101	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.868	9.804	9.667	1.00	0.00



ATOM	2221	HD1	TRP	144	-10.079	8.714	10.594	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.581	6.590	11.977	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.315	7.544	12.034	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.138	4.680	13.461	1.00	0.00
ATOM	2225	HZ3	TRP	144	-4.959	5.547	13.428	1.00	0.00
ATOM	2226	HH2	TRP	144	-6.835	4.150	14.129	1.00	0.00
ATOM	2227	N	ALA	145	-6.779	12.638	10.173	1.00	0.00
ATOM	2228	CA	ALA	145	-6.108	13.739	9.505	1.00	0.00
ATOM	2230	C	ALA	145	-5.245	14.520	10.493	1.00	0.00
ATOM	2231	O	ALA	145	-4.155	14.976	10.141	1.00	0.00
ATOM	2229	CB	ALA	145	-7.124	14.657	8.841	1.00	0.00
ATOM	2232	H	ALA	145	-7.757	12.632	10.214	1.00	0.00
ATOM	2233	HA	ALA	145	-5.473	13.325	8.735	1.00	0.00
ATOM	2234	1HB	ALA	145	-8.118	14.257	8.982	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.910	14.726	7.785	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.065	15.639	9.286	1.00	0.00
ATOM	2237	N	GLU	146	-5.721	14.647	11.736	1.00	0.00
ATOM	2238	CA	GLU	146	-4.963	15.357	12.765	1.00	0.00
ATOM	2244	C	GLU	146	-3.664	14.608	13.051	1.00	0.00
ATOM	2245	O	GLU	146	-2.597	15.208	13.173	1.00	0.00
ATOM	2239	CB	GLU	146	-5.804	15.526	14.044	1.00	0.00
ATOM	2240	CG	GLU	146	-5.023	15.342	15.338	1.00	0.00
ATOM	2241	CD	GLU	146	-5.398	16.349	16.406	1.00	0.00
ATOM	2242	OE1	GLU	146	-5.631	17.529	16.061	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.461	15.964	17.594	1.00	0.00
ATOM	2246	H	GLU	146	-6.592	14.239	11.972	1.00	0.00
ATOM	2247	HA	GLU	146	-4.715	16.334	12.375	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.614	14.810	14.031	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.222	16.517	14.049	1.00	0.00
ATOM	2250	1HG	GLU	146	-3.969	15.443	15.123	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.215	14.350	15.720	1.00	0.00
ATOM	2252	N	PHE	147	-3.765	13.288	13.121	1.00	0.00
ATOM	2253	CA	PHE	147	-2.609	12.432	13.364	1.00	0.00
ATOM	2261	C	PHE	147	-1.591	12.583	12.236	1.00	0.00
ATOM	2262	O	PHE	147	-0.384	12.623	12.483	1.00	0.00
ATOM	2254	CB	PHE	147	-3.063	10.973	13.505	1.00	0.00
ATOM	2255	CG	PHE	147	-1.971	10.018	13.902	1.00	0.00
ATOM	2256	CD1	PHE	147	-0.918	10.430	14.703	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.002	8.703	13.466	1.00	0.00
ATOM	2258	CE1	PHE	147	0.084	9.550	15.059	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.002	7.819	13.818	1.00	0.00
ATOM	2260	CZ	PHE	147	0.043	8.243	14.615	1.00	0.00
ATOM	2263	H	PHE	147	-4.645	12.877	12.993	1.00	0.00
ATOM	2264	HA	PHE	147	-2.139	12.751	14.286	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.468	10.640	12.560	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.835	10.919	14.257	1.00	0.00
ATOM	2267	HD1	PHE	147	-2.818	8.370	12.841	1.00	0.00
ATOM	2268	HD2	PHE	147	-0.885	11.453	15.051	1.00	0.00
ATOM	2269	HE1	PHE	147	-1.038	6.797	13.473	1.00	0.00
ATOM	2270	HE2	PHE	147	0.900	9.883	15.683	1.00	0.00
ATOM	2271	HZ	PHE	147	0.829	7.552	14.887	1.00	0.00
ATOM	2272	N	THR	148	-2.072	12.689	11.002	1.00	0.00
ATOM	2273	CA	THR	148	-1.175	12.860	9.864	1.00	0.00
ATOM	2277	C	THR	148	-0.459	14.203	9.938	1.00	0.00
ATOM	2278	O	THR	148	0.645	14.357	9.439	1.00	0.00
ATOM	2274	CB	THR	148	-1.914	12.759	8.523	1.00	0.00
ATOM	2275	OG1	THR	148	-3.286	12.439	8.742	1.00	0.00
ATOM	2276	CG2	THR	148	-1.270	11.704	7.641	1.00	0.00
ATOM	2279	H	THR	148	-3.046	12.657	10.855	1.00	0.00
ATOM	2280	HA	THR	148	-0.438	12.070	9.905	1.00	0.00
ATOM	2281	HB	THR	148	-1.852	13.707	8.022	1.00	0.00
ATOM	2282	HG1	THR	148	-3.768	13.242	8.970	1.00	0.00
ATOM	2283	1HG2	THR	148	-0.675	12.187	6.879	1.00	0.00
ATOM	2284	2HG2	THR	148	-2.038	11.108	7.171	1.00	0.00
ATOM	2285	3HG2	THR	148	-0.640	11.066	8.243	1.00	0.00
ATOM	2286	N	ALA	149	-1.083	15.175	10.582	1.00	0.00
ATOM	2287	CA	ALA	149	-0.468	16.482	10.729	1.00	0.00
ATOM	2289	C	ALA	149	0.430	16.495	11.955	1.00	0.00
ATOM	2290	O	ALA	149	1.263	17.383	12.123	1.00	0.00
ATOM	2288	CB	ALA	149	-1.526	17.573	10.813	1.00	0.00
ATOM	2291	H	ALA	149	-1.966	15.006	10.980	1.00	0.00
ATOM	2292	HA	ALA	149	0.143	16.657	9.854	1.00	0.00
ATOM	2293	1HB	ALA	149	-1.926	17.764	9.827	1.00	0.00



ATOM	2294	2HB	ALA	149	-1.079	18.477	11.200	1.00	0.00
ATOM	2295	3HB	ALA	149	-2.321	17.253	11.469	1.00	0.00
ATOM	2296	N	LEU	150	0.252	15.495	12.806	1.00	0.00
ATOM	2297	CA	LEU	150	1.044	15.370	14.015	1.00	0.00
ATOM	2302	C	LEU	150	2.411	14.789	13.690	1.00	0.00
ATOM	2303	O	LEU	150	3.437	15.305	14.131	1.00	0.00
ATOM	2298	CB	LEU	150	0.339	14.477	15.042	1.00	0.00
ATOM	2299	CG	LEU	150	-0.154	15.199	16.296	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.662	15.081	16.421	1.00	0.00
ATOM	2301	CD2	LEU	150	0.527	14.643	17.535	1.00	0.00
ATOM	2304	H	LEU	150	-0.431	14.821	12.610	1.00	0.00
ATOM	2305	HA	LEU	150	1.174	16.357	14.434	1.00	0.00
ATOM	2306	LHB	LEU	150	1.030	13.707	15.349	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.504	14.003	14.563	1.00	0.00
ATOM	2308	HG	LEU	150	0.094	16.247	16.220	1.00	0.00
ATOM	2309	1HD1	LEU	150	-2.103	15.042	15.435	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.048	15.938	16.953	1.00	0.00
ATOM	2311	3HD1	LEU	150	-1.910	14.180	16.962	1.00	0.00
ATOM	2312	1HD2	LEU	150	-0.057	14.891	18.409	1.00	0.00
ATOM	2313	2HD2	LEU	150	1.513	15.073	17.627	1.00	0.00
ATOM	2314	3HD2	LEU	150	0.609	13.569	17.450	1.00	0.00
ATOM	2315	N	TYR	151	2.420	13.698	12.932	1.00	0.00
ATOM	2316	CA	TYR	151	3.679	13.047	12.581	1.00	0.00
ATOM	2325	C	TYR	151	3.713	12.579	11.133	1.00	0.00
ATOM	2326	O	TYR	151	4.370	11.587	10.816	1.00	0.00
ATOM	2317	CB	TYR	151	3.919	11.858	13.499	1.00	0.00
ATOM	2318	CG	TYR	151	4.949	12.123	14.571	1.00	0.00
ATOM	2319	CD1	TYR	151	4.632	12.881	15.686	1.00	0.00
ATOM	2320	CD2	TYR	151	6.233	11.606	14.469	1.00	0.00
ATOM	2321	CE1	TYR	151	5.560	13.120	16.674	1.00	0.00
ATOM	2322	CE2	TYR	151	7.172	11.840	15.453	1.00	0.00
ATOM	2323	CZ	TYR	151	6.831	12.597	16.554	1.00	0.00
ATOM	2324	OH	TYR	151	7.763	12.822	17.538	1.00	0.00
ATOM	2327	H	TYR	151	1.564	13.316	12.622	1.00	0.00
ATOM	2328	HA	TYR	151	4.471	13.762	12.731	1.00	0.00
ATOM	2329	1HB	TYR	151	4.257	11.017	12.909	1.00	0.00
ATOM	2330	2HB	TYR	151	2.994	11.601	13.986	1.00	0.00
ATOM	2331	HD1	TYR	151	3.637	13.288	15.774	1.00	0.00
ATOM	2332	HD2	TYR	151	6.497	11.013	13.604	1.00	0.00
ATOM	2333	HE1	TYR	151	5.289	13.711	17.535	1.00	0.00
ATOM	2334	HE2	TYR	151	8.169	11.428	15.359	1.00	0.00
ATOM	2335	HH	TYR	151	8.098	11.970	17.859	1.00	0.00
ATOM	2336	N	GLY	152	3.022	13.280	10.255	1.00	0.00
ATOM	2337	CA	GLY	152	3.023	12.892	8.860	1.00	0.00
ATOM	2338	C	GLY	152	4.059	13.647	8.058	1.00	0.00
ATOM	2339	O	GLY	152	5.215	13.755	8.467	1.00	0.00
ATOM	2340	H	GLY	152	2.510	14.069	10.549	1.00	0.00
ATOM	2341	1HA	GLY	152	2.047	13.085	8.440	1.00	0.00
ATOM	2342	2HA	GLY	152	3.232	11.833	8.791	1.00	0.00
ATOM	2343	N	ASP	153	3.641	14.173	6.914	1.00	0.00
ATOM	2344	CA	ASP	153	4.534	14.928	6.040	1.00	0.00
ATOM	2349	C	ASP	153	4.929	16.248	6.689	1.00	0.00
ATOM	2350	O	ASP	153	6.033	16.751	6.481	1.00	0.00
ATOM	2345	CB	ASP	153	3.851	15.186	4.694	1.00	0.00
ATOM	2346	CG	ASP	153	4.790	15.782	3.664	1.00	0.00
ATOM	2347	OD1	ASP	153	5.656	15.047	3.141	1.00	0.00
ATOM	2348	OD2	ASP	153	4.656	16.985	3.359	1.00	0.00
ATOM	2351	H	ASP	153	2.705	14.051	6.648	1.00	0.00
ATOM	2352	HA	ASP	153	5.423	14.337	5.877	1.00	0.00
ATOM	2353	1HB	ASP	153	3.030	15.870	4.844	1.00	0.00
ATOM	2354	2HB	ASP	153	3.471	14.253	4.307	1.00	0.00
ATOM	2355	N	GLY	154	4.022	16.794	7.486	1.00	0.00
ATOM	2356	CA	GLY	154	4.284	18.043	8.172	1.00	0.00
ATOM	2357	C	GLY	154	4.315	17.862	9.677	1.00	0.00
ATOM	2358	O	GLY	154	3.460	18.381	10.387	1.00	0.00
ATOM	2359	H	GLY	154	3.166	16.337	7.619	1.00	0.00
ATOM	2360	1HA	GLY	154	3.512	18.753	7.919	1.00	0.00
ATOM	2361	2HA	GLY	154	5.240	18.428	7.846	1.00	0.00
ATOM	2362	N	ALA	155	5.302	17.119	10.156	1.00	0.00
ATOM	2363	CA	ALA	155	5.456	16.858	11.579	1.00	0.00
ATOM	2365	C	ALA	155	6.196	18.003	12.253	1.00	0.00
ATOM	2366	O	ALA	155	7.384	17.901	12.562	1.00	0.00
ATOM	2364	CB	ALA	155	6.189	15.542	11.798	1.00	0.00



ATOM	2367	H	ALA	155	5.947	16.739	9.537	1.00	0.00
ATOM	2368	HA	ALA	155	4.470	16.773	12.012	1.00	0.00
ATOM	2369	1HB	ALA	155	6.196	14.978	10.879	1.00	0.00
ATOM	2370	2HB	ALA	155	5.685	14.972	12.566	1.00	0.00
ATOM	2371	3HB	ALA	155	7.204	15.742	12.108	1.00	0.00
ATOM	2372	N	LEU	156	5.478	19.094	12.462	1.00	0.00
ATOM	2373	CA	LEU	156	6.026	20.283	13.085	1.00	0.00
ATOM	2378	C	LEU	156	6.521	19.991	14.497	1.00	0.00
ATOM	2379	O	LEU	156	6.041	19.069	15.162	1.00	0.00
ATOM	2374	CB	LEU	156	4.971	21.389	13.118	1.00	0.00
ATOM	2375	CG	LEU	156	3.541	20.935	13.428	1.00	0.00
ATOM	2376	CD1	LEU	156	2.905	21.857	14.454	1.00	0.00
ATOM	2377	CD2	LEU	156	2.701	20.900	12.160	1.00	0.00
ATOM	2380	H	LEU	156	4.545	19.101	12.178	1.00	0.00
ATOM	2381	HA	LEU	156	6.860	20.614	12.487	1.00	0.00
ATOM	2382	1HB	LEU	156	4.968	21.881	12.159	1.00	0.00
ATOM	2383	2HB	LEU	156	5.263	22.101	13.867	1.00	0.00
ATOM	2384	HG	LEU	156	3.569	19.937	13.844	1.00	0.00
ATOM	2385	1HD1	LEU	156	2.294	22.590	13.950	1.00	0.00
ATOM	2386	2HD1	LEU	156	3.681	22.360	15.015	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.292	21.277	15.128	1.00	0.00
ATOM	2388	1HD2	LEU	156	2.793	19.931	11.694	1.00	0.00
ATOM	2389	2HD2	LEU	156	3.047	21.663	11.479	1.00	0.00
ATOM	2390	3HD2	LEU	156	1.666	21.083	12.409	1.00	0.00
ATOM	2391	N	GLU	157	7.487	20.784	14.942	1.00	0.00
ATOM	2392	CA	GLU	157	8.083	20.634	16.264	1.00	0.00
ATOM	2398	C	GLU	157	7.039	20.681	17.380	1.00	0.00
ATOM	2399	O	GLU	157	7.235	20.087	18.441	1.00	0.00
ATOM	2393	CB	GLU	157	9.121	21.725	16.490	1.00	0.00
ATOM	2394	CG	GLU	157	10.217	21.762	15.440	1.00	0.00
ATOM	2395	CD	GLU	157	10.628	23.175	15.083	1.00	0.00
ATOM	2396	OE1	GLU	157	9.852	23.862	14.383	1.00	0.00
ATOM	2397	OE2	GLU	157	11.720	23.605	15.508	1.00	0.00
ATOM	2400	H	GLU	157	7.824	21.495	14.351	1.00	0.00
ATOM	2401	HA	GLU	157	8.578	19.681	16.297	1.00	0.00
ATOM	2402	1HB	GLU	157	9.579	21.572	17.452	1.00	0.00
ATOM	2403	2HB	GLU	157	8.620	22.675	16.490	1.00	0.00
ATOM	2404	1HG	GLU	157	9.860	21.270	14.547	1.00	0.00
ATOM	2405	2HG	GLU	157	11.081	21.236	15.818	1.00	0.00
ATOM	2406	N	GLU	158	5.937	21.381	17.140	1.00	0.00
ATOM	2407	CA	GLU	158	4.880	21.494	18.138	1.00	0.00
ATOM	2413	C	GLU	158	4.085	20.200	18.232	1.00	0.00
ATOM	2414	O	GLU	158	3.759	19.736	19.321	1.00	0.00
ATOM	2408	CB	GLU	158	3.943	22.656	17.809	1.00	0.00
ATOM	2409	CG	GLU	158	4.197	23.905	18.640	1.00	0.00
ATOM	2410	CD	GLU	158	3.594	23.819	20.030	1.00	0.00
ATOM	2411	OE1	GLU	158	3.513	22.704	20.584	1.00	0.00
ATOM	2412	OE2	GLU	158	3.215	24.867	20.585	1.00	0.00
ATOM	2415	H	GLU	158	5.833	21.828	16.271	1.00	0.00
ATOM	2416	HA	GLU	158	5.349	21.683	19.092	1.00	0.00
ATOM	2417	1HB	GLU	158	2.926	22.338	17.981	1.00	0.00
ATOM	2418	2HB	GLU	158	4.060	22.913	16.767	1.00	0.00
ATOM	2419	1HG	GLU	158	3.766	24.754	18.129	1.00	0.00
ATOM	2420	2HG	GLU	158	5.262	24.047	18.736	1.00	0.00
ATOM	2421	N	ALA	159	3.788	19.613	17.083	1.00	0.00
ATOM	2422	CA	ALA	159	3.036	18.368	17.039	1.00	0.00
ATOM	2424	C	ALA	159	3.867	17.223	17.595	1.00	0.00
ATOM	2425	O	ALA	159	3.347	16.309	18.237	1.00	0.00
ATOM	2423	CB	ALA	159	2.595	18.070	15.615	1.00	0.00
ATOM	2426	H	ALA	159	4.088	20.019	16.244	1.00	0.00
ATOM	2427	HA	ALA	159	2.152	18.489	17.649	1.00	0.00
ATOM	2428	1HB	ALA	159	2.925	17.080	15.336	1.00	0.00
ATOM	2429	2HB	ALA	159	3.029	18.797	14.945	1.00	0.00
ATOM	2430	3HB	ALA	159	1.518	18.121	15.553	1.00	0.00
ATOM	2431	N	ARG	160	5.168	17.287	17.349	1.00	0.00
ATOM	2432	CA	ARG	160	6.089	16.265	17.821	1.00	0.00
ATOM	2440	C	ARG	160	6.133	16.228	19.346	1.00	0.00
ATOM	2441	O	ARG	160	5.975	15.167	19.952	1.00	0.00
ATOM	2433	CB	ARG	160	7.486	16.505	17.251	1.00	0.00
ATOM	2434	CG	ARG	160	7.560	16.293	15.747	1.00	0.00
ATOM	2435	CD	ARG	160	8.891	15.690	15.333	1.00	0.00
ATOM	2436	NE	ARG	160	9.905	16.715	15.092	1.00	0.00
ATOM	2437	CZ	ARG	160	10.522	16.894	13.924	1.00	0.00



ATOM	2438	NH1	ARG	160	10.182	16.160	12.870	1.00	0.00
ATOM	2439	NH2	ARG	160	11.470	17.814	13.809	1.00	0.00
ATOM	2442	H	ARG	160	5.516	18.045	16.831	1.00	0.00
ATOM	2443	HA	ARG	160	5.728	15.311	17.466	1.00	0.00
ATOM	2444	1HB	ARG	160	8.179	15.827	17.724	1.00	0.00
ATOM	2445	2HB	ARG	160	7.782	17.521	17.466	1.00	0.00
ATOM	2446	1HG	ARG	160	7.437	17.245	15.252	1.00	0.00
ATOM	2447	2HG	ARG	160	6.767	15.624	15.447	1.00	0.00
ATOM	2448	1HD	ARG	160	8.747	15.120	14.428	1.00	0.00
ATOM	2449	2HD	ARG	160	9.234	15.035	16.119	1.00	0.00
ATOM	2450	HE	ARG	160	10.150	17.291	15.849	1.00	0.00
ATOM	2451	1HH1	ARG	160	9.464	15.470	12.947	1.00	0.00
ATOM	2452	2HH1	ARG	160	10.638	16.306	11.977	1.00	0.00
ATOM	2453	1HH2	ARG	160	11.724	18.382	14.601	1.00	0.00
ATOM	2454	2HH2	ARG	160	11.955	17.937	12.932	1.00	0.00
ATOM	2455	N	ARG	161	6.327	17.389	19.969	1.00	0.00
ATOM	2456	CA	ARG	161	6.372	17.459	21.426	1.00	0.00
ATOM	2464	C	ARG	161	4.996	17.181	22.018	1.00	0.00
ATOM	2465	O	ARG	161	4.882	16.641	23.119	1.00	0.00
ATOM	2457	CB	ARG	161	6.905	18.814	21.905	1.00	0.00
ATOM	2458	CG	ARG	161	6.115	20.010	21.405	1.00	0.00
ATOM	2459	CD	ARG	161	6.684	21.307	21.956	1.00	0.00
ATOM	2460	NE	ARG	161	5.669	22.350	22.088	1.00	0.00
ATOM	2461	CZ	ARG	161	5.755	23.369	22.943	1.00	0.00
ATOM	2462	NH1	ARG	161	6.796	23.466	23.762	1.00	0.00
ATOM	2463	NH2	ARG	161	4.802	24.293	22.970	1.00	0.00
ATOM	2466	H	ARG	161	6.433	18.208	19.440	1.00	0.00
ATOM	2467	HA	ARG	161	7.045	16.688	21.763	1.00	0.00
ATOM	2468	1HB	ARG	161	7.926	18.921	21.571	1.00	0.00
ATOM	2469	2HB	ARG	161	6.887	18.829	22.984	1.00	0.00
ATOM	2470	1HG	ARG	161	5.088	19.911	21.719	1.00	0.00
ATOM	2471	2HG	ARG	161	6.164	20.035	20.326	1.00	0.00
ATOM	2472	1HD	ARG	161	7.460	21.656	21.289	1.00	0.00
ATOM	2473	2HD	ARG	161	7.111	21.111	22.928	1.00	0.00
ATOM	2474	HE	ARG	161	4.874	22.293	21.492	1.00	0.00
ATOM	2475	1HH1	ARG	161	7.517	22.773	23.741	1.00	0.00
ATOM	2476	2HH1	ARG	161	6.868	24.242	24.406	1.00	0.00
ATOM	2477	1HH2	ARG	161	4.013	24.225	22.343	1.00	0.00
ATOM	2478	2HH2	ARG	161	4.859	25.058	23.612	1.00	0.00
ATOM	2479	N	LEU	162	3.954	17.534	21.273	1.00	0.00
ATOM	2480	CA	LEU	162	2.586	17.308	21.716	1.00	0.00
ATOM	2485	C	LEU	162	2.308	15.815	21.828	1.00	0.00
ATOM	2486	O	LEU	162	1.614	15.373	22.740	1.00	0.00
ATOM	2481	CB	LEU	162	1.590	17.953	20.751	1.00	0.00
ATOM	2482	CG	LEU	162	0.577	18.899	21.398	1.00	0.00
ATOM	2483	CD1	LEU	162	0.494	20.204	20.622	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.791	18.240	21.483	1.00	0.00
ATOM	2487	H	LEU	162	4.109	17.950	20.398	1.00	0.00
ATOM	2488	HA	LEU	162	2.476	17.755	22.692	1.00	0.00
ATOM	2489	1HB	LEU	162	1.044	17.167	20.252	1.00	0.00
ATOM	2490	2HB	LEU	162	2.147	18.507	20.010	1.00	0.00
ATOM	2491	HG	LEU	162	0.902	19.129	22.402	1.00	0.00
ATOM	2492	1HD1	LEU	162	1.132	20.941	21.087	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.526	20.558	20.622	1.00	0.00
ATOM	2494	3HD1	LEU	162	0.817	20.039	19.604	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.702	17.289	21.988	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.178	18.082	20.486	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.465	18.879	22.033	1.00	0.00
ATOM	2498	N	ARG	163	2.862	15.037	20.903	1.00	0.00
ATOM	2499	CA	ARG	163	2.672	13.593	20.916	1.00	0.00
ATOM	2507	C	ARG	163	3.406	12.967	22.097	1.00	0.00
ATOM	2508	O	ARG	163	2.871	12.085	22.769	1.00	0.00
ATOM	2500	CB	ARG	163	3.152	12.964	19.608	1.00	0.00
ATOM	2501	CG	ARG	163	2.545	11.592	19.339	1.00	0.00
ATOM	2502	CD	ARG	163	2.805	11.139	17.912	1.00	0.00
ATOM	2503	NE	ARG	163	4.072	10.411	17.790	1.00	0.00
ATOM	2504	CZ	ARG	163	4.359	9.567	16.797	1.00	0.00
ATOM	2505	NH1	ARG	163	3.432	9.262	15.893	1.00	0.00
ATOM	2506	NH2	ARG	163	5.573	9.033	16.706	1.00	0.00
ATOM	2509	H	ARG	163	3.414	15.445	20.200	1.00	0.00
ATOM	2510	HA	ARG	163	1.614	13.404	21.028	1.00	0.00
ATOM	2511	1HB	ARG	163	4.226	12.857	19.643	1.00	0.00
ATOM	2512	2HB	ARG	163	2.889	13.617	18.788	1.00	0.00



ATOM	2513	1HG	ARG	163	1.478	11.645	19.502	1.00	0.00
ATOM	2514	2HG	ARG	163	2.981	10.876	20.018	1.00	0.00
ATOM	2515	1HD	ARG	163	2.841	12.011	17.276	1.00	0.00
ATOM	2516	2HD	ARG	163	1.993	10.501	17.594	1.00	0.00
ATOM	2517	HE	ARG	163	4.762	10.594	18.468	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.517	9.664	15.957	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.648	8.639	15.141	1.00	0.00
ATOM	2520	1HH2	ARG	163	6.288	9.268	17.387	1.00	0.00
ATOM	2521	2HH2	ARG	163	5.796	8.401	15.959	1.00	0.00
ATOM	2522	N	GLU	164	4.628	13.433	22.350	1.00	0.00
ATOM	2523	CA	GLU	164	5.422	12.914	23.459	1.00	0.00
ATOM	2529	C	GLU	164	4.763	13.257	24.791	1.00	0.00
ATOM	2530	O	GLU	164	4.646	12.407	25.675	1.00	0.00
ATOM	2524	CB	GLU	164	6.856	13.452	23.412	1.00	0.00
ATOM	2525	CG	GLU	164	7.901	12.407	23.779	1.00	0.00
ATOM	2526	CD	GLU	164	9.323	12.922	23.675	1.00	0.00
ATOM	2527	OE1	GLU	164	9.552	14.112	23.972	1.00	0.00
ATOM	2528	OE2	GLU	164	10.216	12.126	23.302	1.00	0.00
ATOM	2531	H	GLU	164	5.002	14.144	21.783	1.00	0.00
ATOM	2532	HA	GLU	164	5.452	11.839	23.361	1.00	0.00
ATOM	2533	1HB	GLU	164	6.943	14.278	24.104	1.00	0.00
ATOM	2534	2HB	GLU	164	7.064	13.807	22.413	1.00	0.00
ATOM	2535	1HG	GLU	164	7.794	11.561	23.114	1.00	0.00
ATOM	2536	2HG	GLU	164	7.729	12.086	24.794	1.00	0.00
ATOM	2537	N	GLY	165	4.311	14.498	24.920	1.00	0.00
ATOM	2538	CA	GLY	165	3.648	14.916	26.140	1.00	0.00
ATOM	2539	C	GLY	165	2.300	14.243	26.302	1.00	0.00
ATOM	2540	O	GLY	165	1.779	14.136	27.411	1.00	0.00
ATOM	2541	H	GLY	165	4.415	15.133	24.174	1.00	0.00
ATOM	2542	1HA	GLY	165	3.505	15.986	26.113	1.00	0.00
ATOM	2543	2HA	GLY	165	4.272	14.664	26.983	1.00	0.00
ATOM	2544	N	ASN	166	1.741	13.793	25.187	1.00	0.00
ATOM	2545	CA	ASN	166	0.447	13.128	25.182	1.00	0.00
ATOM	2550	C	ASN	166	0.559	11.714	25.729	1.00	0.00
ATOM	2551	O	ASN	166	-0.178	11.329	26.638	1.00	0.00
ATOM	2546	CB	ASN	166	-0.117	13.071	23.761	1.00	0.00
ATOM	2547	CG	ASN	166	-1.518	13.639	23.664	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.224	13.766	24.661	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.933	13.978	22.456	1.00	0.00
ATOM	2552	H	ASN	166	2.215	13.919	24.338	1.00	0.00
ATOM	2553	HA	ASN	166	-0.226	13.696	25.805	1.00	0.00
ATOM	2554	1HB	ASN	166	-0.144	12.041	23.434	1.00	0.00
ATOM	2555	2HB	ASN	166	0.527	13.633	23.100	1.00	0.00
ATOM	2556	1HD2	ASN	166	-1.323	13.852	21.704	1.00	0.00
ATOM	2557	2HD2	ASN	166	-2.839	14.335	22.366	1.00	0.00
ATOM	2558	N	TRP	167	1.478	10.931	25.167	1.00	0.00
ATOM	2559	CA	TRP	167	1.652	9.557	25.604	1.00	0.00
ATOM	2570	C	TRP	167	2.186	9.494	27.023	1.00	0.00
ATOM	2571	O	TRP	167	1.976	8.508	27.715	1.00	0.00
ATOM	2560	CB	TRP	167	2.522	8.735	24.627	1.00	0.00
ATOM	2561	CG	TRP	167	4.000	9.023	24.648	1.00	0.00
ATOM	2562	CD1	TRP	167	4.706	9.711	23.705	1.00	0.00
ATOM	2563	CD2	TRP	167	4.962	8.594	25.627	1.00	0.00
ATOM	2564	NE1	TRP	167	6.036	9.756	24.045	1.00	0.00
ATOM	2565	CE2	TRP	167	6.219	9.081	25.220	1.00	0.00
ATOM	2566	CE3	TRP	167	4.881	7.857	26.812	1.00	0.00
ATOM	2567	CZ2	TRP	167	7.381	8.854	25.954	1.00	0.00
ATOM	2568	CZ3	TRP	167	6.035	7.632	27.540	1.00	0.00
ATOM	2569	CH2	TRP	167	7.271	8.129	27.108	1.00	0.00
ATOM	2572	H	TRP	167	2.034	11.283	24.443	1.00	0.00
ATOM	2573	HA	TRP	167	0.663	9.115	25.617	1.00	0.00
ATOM	2574	1HB	TRP	167	2.167	8.910	23.621	1.00	0.00
ATOM	2575	2HB	TRP	167	2.398	7.689	24.857	1.00	0.00
ATOM	2576	HD1	TRP	167	4.267	10.158	22.825	1.00	0.00
ATOM	2577	HE1	TRP	167	6.741	10.204	23.530	1.00	0.00
ATOM	2578	HE3	TRP	167	3.933	7.467	27.161	1.00	0.00
ATOM	2579	HZ2	TRP	167	8.341	9.232	25.636	1.00	0.00
ATOM	2580	HZ3	TRP	167	5.989	7.064	28.457	1.00	0.00
ATOM	2581	HH2	TRP	167	8.147	7.929	27.708	1.00	0.00
ATOM	2582	N	ALA	168	2.854	10.550	27.467	1.00	0.00
ATOM	2583	CA	ALA	168	3.383	10.583	28.821	1.00	0.00
ATOM	2585	C	ALA	168	2.268	10.340	29.833	1.00	0.00
ATOM	2586	O	ALA	168	2.429	9.577	30.789	1.00	0.00



ATOM	2584	CB	ALA	168	4.078	11.909	29.092	1.00	0.00
ATOM	2587	H	ALA	168	2.983	11.325	26.878	1.00	0.00
ATOM	2588	HA	ALA	168	4.111	9.793	28.911	1.00	0.00
ATOM	2589	1HB	ALA	168	3.986	12.545	28.224	1.00	0.00
ATOM	2590	2HB	ALA	168	5.122	11.734	29.302	1.00	0.00
ATOM	2591	3HB	ALA	168	3.615	12.391	29.940	1.00	0.00
ATOM	2592	N	SER	169	1.138	10.990	29.615	1.00	0.00
ATOM	2593	CA	SER	169	-0.005	10.852	30.497	1.00	0.00
ATOM	2596	C	SER	169	-0.908	9.669	30.110	1.00	0.00
ATOM	2597	O	SER	169	-1.538	9.062	30.974	1.00	0.00
ATOM	2594	CB	SER	169	-0.804	12.155	30.492	1.00	0.00
ATOM	2595	OG	SER	169	-0.099	13.173	29.794	1.00	0.00
ATOM	2598	H	SER	169	1.069	11.588	28.838	1.00	0.00
ATOM	2599	HA	SER	169	0.371	10.684	31.495	1.00	0.00
ATOM	2600	1HB	SER	169	-0.969	12.480	31.508	1.00	0.00
ATOM	2601	2HB	SER	169	-1.755	11.993	30.005	1.00	0.00
ATOM	2602	HG	SER	169	0.657	13.467	30.326	1.00	0.00
ATOM	2603	N	VAL	170	-1.005	9.358	28.813	1.00	0.00
ATOM	2604	CA	VAL	170	-1.895	8.273	28.367	1.00	0.00
ATOM	2608	C	VAL	170	-1.252	6.886	28.410	1.00	0.00
ATOM	2609	O	VAL	170	-1.949	5.878	28.524	1.00	0.00
ATOM	2605	CB	VAL	170	-2.469	8.522	26.953	1.00	0.00
ATOM	2606	CG1	VAL	170	-3.298	9.796	26.926	1.00	0.00
ATOM	2607	CG2	VAL	170	-1.375	8.568	25.901	1.00	0.00
ATOM	2610	H	VAL	170	-0.501	9.883	28.150	1.00	0.00
ATOM	2611	HA	VAL	170	-2.731	8.264	29.051	1.00	0.00
ATOM	2612	HB	VAL	170	-3.119	7.697	26.713	1.00	0.00
ATOM	2613	1HG1	VAL	170	-3.078	10.387	27.804	1.00	0.00
ATOM	2614	2HG1	VAL	170	-4.347	9.542	26.917	1.00	0.00
ATOM	2615	3HG1	VAL	170	-3.056	10.365	26.040	1.00	0.00
ATOM	2616	1HG2	VAL	170	-0.410	8.591	26.384	1.00	0.00
ATOM	2617	2HG2	VAL	170	-1.496	9.456	25.294	1.00	0.00
ATOM	2618	3HG2	VAL	170	-1.442	7.692	25.273	1.00	0.00
ATOM	2619	N	ARG	171	0.058	6.811	28.317	1.00	0.00
ATOM	2620	CA	ARG	171	0.729	5.520	28.351	1.00	0.00
ATOM	2628	C	ARG	171	0.872	5.047	29.791	1.00	0.00
ATOM	2629	O	ARG	171	0.953	3.850	30.056	1.00	0.00
ATOM	2621	CB	ARG	171	2.092	5.598	27.663	1.00	0.00
ATOM	2622	CG	ARG	171	2.551	4.283	27.055	1.00	0.00
ATOM	2623	CD	ARG	171	3.850	4.457	26.285	1.00	0.00
ATOM	2624	NE	ARG	171	5.009	4.483	27.176	1.00	0.00
ATOM	2625	CZ	ARG	171	6.156	3.848	26.938	1.00	0.00
ATOM	2626	NH1	ARG	171	6.325	3.172	25.807	1.00	0.00
ATOM	2627	NH2	ARG	171	7.139	3.905	27.828	1.00	0.00
ATOM	2630	H	ARG	171	0.591	7.635	28.223	1.00	0.00
ATOM	2631	HA	ARG	171	0.107	4.815	27.819	1.00	0.00
ATOM	2632	1HB	ARG	171	2.830	5.916	28.383	1.00	0.00
ATOM	2633	2HB	ARG	171	2.035	6.332	26.870	1.00	0.00
ATOM	2634	1HG	ARG	171	1.788	3.922	26.382	1.00	0.00
ATOM	2635	2HG	ARG	171	2.706	3.567	27.847	1.00	0.00
ATOM	2636	1HD	ARG	171	3.806	5.388	25.734	1.00	0.00
ATOM	2637	2HD	ARG	171	3.956	3.634	25.593	1.00	0.00
ATOM	2638	HE	ARG	171	4.921	5.000	28.010	1.00	0.00
ATOM	2639	1HH1	ARG	171	5.591	3.137	25.128	1.00	0.00
ATOM	2640	2HH1	ARG	171	7.191	2.701	25.628	1.00	0.00
ATOM	2641	1HH2	ARG	171	7.019	4.436	28.683	1.00	0.00
ATOM	2642	2HH2	ARG	171	8.001	3.415	27.669	1.00	0.00
ATOM	2643	N	THR	172	0.887	5.998	30.714	1.00	0.00
ATOM	2644	CA	THR	172	1.011	5.686	32.128	1.00	0.00
ATOM	2648	C	THR	172	-0.352	5.486	32.785	1.00	0.00
ATOM	2649	O	THR	172	-0.469	4.729	33.746	1.00	0.00
ATOM	2645	CB	THR	172	1.797	6.782	32.867	1.00	0.00
ATOM	2646	OG1	THR	172	2.868	7.258	32.035	1.00	0.00
ATOM	2647	CG2	THR	172	2.364	6.258	34.178	1.00	0.00
ATOM	2650	H	THR	172	0.809	6.935	30.438	1.00	0.00
ATOM	2651	HA	THR	172	1.560	4.763	32.214	1.00	0.00
ATOM	2652	HB	THR	172	1.127	7.594	33.081	1.00	0.00
ATOM	2653	HG1	THR	172	2.646	8.139	31.698	1.00	0.00
ATOM	2654	1HG2	THR	172	3.330	5.807	34.000	1.00	0.00
ATOM	2655	2HG2	THR	172	1.693	5.519	34.590	1.00	0.00
ATOM	2656	3HG2	THR	172	2.471	7.075	34.876	1.00	0.00
ATOM	2657	N	VAL	173	-1.387	6.142	32.265	1.00	0.00
ATOM	2658	CA	VAL	173	-2.726	5.989	32.833	1.00	0.00



ATOM	2662	C	VAL	173	-3.225	4.555	32.643	1.00	0.00
ATOM	2663	O	VAL	173	-3.993	4.033	33.448	1.00	0.00
ATOM	2659	CB	VAL	173	-3.730	7.003	32.229	1.00	0.00
ATOM	2660	CG1	VAL	173	-4.024	6.712	30.769	1.00	0.00
ATOM	2661	CG2	VAL	173	-5.018	7.037	33.039	1.00	0.00
ATOM	2664	H	VAL	173	-1.253	6.730	31.490	1.00	0.00
ATOM	2665	HA	VAL	173	-2.651	6.185	33.895	1.00	0.00
ATOM	2666	HB	VAL	173	-3.279	7.978	32.280	1.00	0.00
ATOM	2667	1HG1	VAL	173	-4.608	5.807	30.694	1.00	0.00
ATOM	2668	2HG1	VAL	173	-3.095	6.587	30.234	1.00	0.00
ATOM	2669	3HG1	VAL	173	-4.578	7.534	30.342	1.00	0.00
ATOM	2670	1HG2	VAL	173	-5.547	7.956	32.837	1.00	0.00
ATOM	2671	2HG2	VAL	173	-4.783	6.981	34.092	1.00	0.00
ATOM	2672	3HG2	VAL	173	-5.639	6.196	32.764	1.00	0.00
ATOM	2673	N	LEU	174	-2.753	3.918	31.582	1.00	0.00
ATOM	2674	CA	LEU	174	-3.121	2.536	31.290	1.00	0.00
ATOM	2679	C	LEU	174	-1.877	1.654	31.266	1.00	0.00
ATOM	2680	O	LEU	174	-1.681	0.850	30.352	1.00	0.00
ATOM	2675	CB	LEU	174	-3.867	2.437	29.956	1.00	0.00
ATOM	2676	CG	LEU	174	-4.573	3.717	29.520	1.00	0.00
ATOM	2677	CD1	LEU	174	-4.476	3.901	28.013	1.00	0.00
ATOM	2678	CD2	LEU	174	-6.028	3.706	29.967	1.00	0.00
ATOM	2681	H	LEU	174	-2.132	4.388	30.990	1.00	0.00
ATOM	2682	HA	LEU	174	-3.771	2.195	32.082	1.00	0.00
ATOM	2683	1HB	LEU	174	-4.606	1.655	30.038	1.00	0.00
ATOM	2684	2HB	LEU	174	-3.157	2.161	29.189	1.00	0.00
ATOM	2685	HG	LEU	174	-4.084	4.557	29.994	1.00	0.00
ATOM	2686	1HD1	LEU	174	-5.362	4.406	27.655	1.00	0.00
ATOM	2687	2HD1	LEU	174	-4.394	2.936	27.537	1.00	0.00
ATOM	2688	3HD1	LEU	174	-3.604	4.494	27.779	1.00	0.00
ATOM	2689	1HD2	LEU	174	-6.240	2.778	30.479	1.00	0.00
ATOM	2690	2HD2	LEU	174	-6.671	3.795	29.104	1.00	0.00
ATOM	2691	3HD2	LEU	174	-6.206	4.535	30.636	1.00	0.00
ATOM	2692	N	THR	175	-1.030	1.826	32.270	1.00	0.00
ATOM	2693	CA	THR	175	0.206	1.056	32.379	1.00	0.00
ATOM	2697	C	THR	175	-0.077	-0.433	32.591	1.00	0.00
ATOM	2698	O	THR	175	0.584	-1.289	32.007	1.00	0.00
ATOM	2694	CB	THR	175	1.067	1.559	33.550	1.00	0.00
ATOM	2695	OG1	THR	175	0.249	2.288	34.477	1.00	0.00
ATOM	2696	CG2	THR	175	2.202	2.444	33.055	1.00	0.00
ATOM	2699	H	THR	175	-1.232	2.503	32.954	1.00	0.00
ATOM	2700	HA	THR	175	0.765	1.184	31.463	1.00	0.00
ATOM	2701	HB	THR	175	1.492	0.705	34.057	1.00	0.00
ATOM	2702	HG1	THR	175	0.353	3.239	34.327	1.00	0.00
ATOM	2703	1HG2	THR	175	2.056	3.452	33.411	1.00	0.00
ATOM	2704	2HG2	THR	175	2.213	2.443	31.974	1.00	0.00
ATOM	2705	3HG2	THR	175	3.141	2.064	33.424	1.00	0.00
ATOM	2706	N	GLY	176	-1.053	-0.731	33.446	1.00	0.00
ATOM	2707	CA	GLY	176	-1.400	-2.112	33.757	1.00	0.00
ATOM	2708	C	GLY	176	-2.194	-2.823	32.671	1.00	0.00
ATOM	2709	O	GLY	176	-2.909	-3.782	32.958	1.00	0.00
ATOM	2710	H	GLY	176	-1.535	0.001	33.896	1.00	0.00
ATOM	2711	1HA	GLY	176	-1.980	-2.120	34.669	1.00	0.00
ATOM	2712	2HA	GLY	176	-0.489	-2.664	33.926	1.00	0.00
ATOM	2713	N	ALA	177	-2.059	-2.380	31.431	1.00	0.00
ATOM	2714	CA	ALA	177	-2.760	-3.005	30.316	1.00	0.00
ATOM	2716	C	ALA	177	-1.924	-4.137	29.728	1.00	0.00
ATOM	2717	O	ALA	177	-2.348	-4.828	28.803	1.00	0.00
ATOM	2715	CB	ALA	177	-3.080	-1.971	29.250	1.00	0.00
ATOM	2718	H	ALA	177	-1.462	-1.622	31.258	1.00	0.00
ATOM	2719	HA	ALA	177	-3.693	-3.414	30.680	1.00	0.00
ATOM	2720	1HB	ALA	177	-2.862	-2.378	28.274	1.00	0.00
ATOM	2721	2HB	ALA	177	-2.479	-1.088	29.413	1.00	0.00
ATOM	2722	3HB	ALA	177	-4.126	-1.710	29.305	1.00	0.00
ATOM	2723	N	VAL	178	-0.730	-4.323	30.277	1.00	0.00
ATOM	2724	CA	VAL	178	0.177	-5.369	29.818	1.00	0.00
ATOM	2728	C	VAL	178	-0.241	-6.730	30.370	1.00	0.00
ATOM	2729	O	VAL	178	0.460	-7.333	31.182	1.00	0.00
ATOM	2725	CB	VAL	178	1.643	-5.082	30.220	1.00	0.00
ATOM	2726	CG1	VAL	178	2.605	-5.866	29.339	1.00	0.00
ATOM	2727	CG2	VAL	178	1.943	-3.593	30.141	1.00	0.00
ATOM	2730	H	VAL	178	-0.452	-3.740	31.013	1.00	0.00
ATOM	2731	HA	VAL	178	0.122	-5.403	28.741	1.00	0.00



ATOM	2732	HB	VAL	178	1.783	-5.402	31.242	1.00	0.00
ATOM	2733	1HG1	VAL	178	2.345	-6.915	29.367	1.00	0.00
ATOM	2734	2HG1	VAL	178	3.613	-5.736	29.702	1.00	0.00
ATOM	2735	3HG1	VAL	178	2.538	-5.507	28.322	1.00	0.00
ATOM	2736	1RG2	VAL	178	1.142	-3.091	29.621	1.00	0.00
ATOM	2737	2HG2	VAL	178	2.870	-3.440	29.607	1.00	0.00
ATOM	2738	3HG2	VAL	178	2.034	-3.191	31.140	1.00	0.00
ATOM	2739	N	ALA	179	-1.396	-7.200	29.925	1.00	0.00
ATOM	2740	CA	ALA	179	-1.928	-8.485	30.360	1.00	0.00
ATOM	2742	C	ALA	179	-1.632	-9.562	29.323	1.00	0.00
ATOM	2743	O	ALA	179	-2.180	-10.662	29.373	1.00	0.00
ATOM	2741	CB	ALA	179	-3.426	-8.382	30.602	1.00	0.00
ATOM	2744	H	ALA	179	-1.912	-6.660	29.285	1.00	0.00
ATOM	2745	HA	ALA	179	-1.450	-8.750	31.293	1.00	0.00
ATOM	2746	1HB	ALA	179	-3.948	-9.008	29.892	1.00	0.00
ATOM	2747	2HB	ALA	179	-3.741	-7.357	30.479	1.00	0.00
ATOM	2748	3HB	ALA	179	-3.653	-8.711	31.606	1.00	0.00
ATOM	2749	N	LEU	180	-0.764	-9.227	28.376	1.00	0.00
ATOM	2750	CA	LEU	180	-0.395	-10.151	27.315	1.00	0.00
ATOM	2755	C	LEU	180	0.832	-10.965	27.713	1.00	0.00
ATOM	2756	O	LEU	180	0.849	-12.189	27.563	1.00	0.00
ATOM	2751	CB	LEU	180	-0.139	-9.385	26.018	1.00	0.00
ATOM	2752	CG	LEU	180	-1.299	-9.384	25.021	1.00	0.00
ATOM	2753	CD1	LEU	180	-2.572	-8.882	25.679	1.00	0.00
ATOM	2754	CD2	LEU	180	-0.957	-8.536	23.807	1.00	0.00
ATOM	2757	H	LEU	180	-0.365	-8.333	28.390	1.00	0.00
ATOM	2758	HA	LEU	180	-1.224	-10.828	27.164	1.00	0.00
ATOM	2759	1HB	LEU	180	0.722	-9.820	25.532	1.00	0.00
ATOM	2760	2HB	LEU	180	0.091	-8.360	26.271	1.00	0.00
ATOM	2761	HG	LEU	180	-1.476	-10.395	24.684	1.00	0.00
ATOM	2762	1HD1	LEU	180	-2.843	-7.926	25.257	1.00	0.00
ATOM	2763	2HD1	LEU	180	-2.409	-8.775	26.741	1.00	0.00
ATOM	2764	3HD1	LEU	180	-3.369	-9.591	25.507	1.00	0.00
ATOM	2765	1HD2	LEU	180	-1.666	-8.737	23.017	1.00	0.00
ATOM	2766	2HD2	LEU	180	0.038	-8.778	23.468	1.00	0.00
ATOM	2767	3HD2	LEU	180	-1.003	-7.491	24.074	1.00	0.00
ATOM	2768	N	GLY	181	1.848	-10.280	28.229	1.00	0.00
ATOM	2769	CA	GLY	181	3.061	-10.947	28.660	1.00	0.00
ATOM	2770	C	GLY	181	2.820	-11.776	29.905	1.00	0.00
ATOM	2771	O	GLY	181	2.888	-11.266	31.023	1.00	0.00
ATOM	2772	H	GLY	181	1.772	-9.308	28.323	1.00	0.00
ATOM	2773	1HA	GLY	181	3.817	-10.206	28.872	1.00	0.00
ATOM	2774	2HA	GLY	181	3.411	-11.592	27.867	1.00	0.00
ATOM	2775	N	ALA	182	2.508	-13.047	29.710	1.00	0.00
ATOM	2776	CA	ALA	182	2.222	-13.940	30.820	1.00	0.00
ATOM	2778	C	ALA	182	3.479	-14.629	31.334	1.00	0.00
ATOM	2779	O	ALA	182	3.943	-15.613	30.756	1.00	0.00
ATOM	2777	CB	ALA	182	1.184	-14.971	30.404	1.00	0.00
ATOM	2780	H	ALA	182	2.450	-13.390	28.791	1.00	0.00
ATOM	2781	HA	ALA	182	1.801	-13.348	31.620	1.00	0.00
ATOM	2782	1HB	ALA	182	1.004	-14.893	29.342	1.00	0.00
ATOM	2783	2HB	ALA	182	0.264	-14.791	30.939	1.00	0.00
ATOM	2784	3HB	ALA	182	1.547	-15.962	30.636	1.00	0.00
ATOM	2785	N	LEU	183	4.013	-14.116	32.430	1.00	0.00
ATOM	2790	CA	LEU	183	5.202	-14.685	33.042	1.00	0.00
ATOM	2791	C	LEU	183	4.910	-15.033	34.492	1.00	0.00
ATOM	2792	O	LEU	183	4.528	-14.121	35.251	1.00	0.00
ATOM	2786	CB	LEU	183	6.375	-13.705	32.960	1.00	0.00
ATOM	2787	CG	LEU	183	7.759	-14.357	32.908	1.00	0.00
ATOM	2788	CD1	LEU	183	8.263	-14.423	31.476	1.00	0.00
ATOM	2789	CD2	LEU	183	8.741	-13.597	33.788	1.00	0.00
ATOM	2793	OXT	LEU	183	5.023	-16.218	34.858	1.00	0.00
ATOM	2794	H	LEU	183	3.589	-13.339	32.851	1.00	0.00
ATOM	2795	HA	LEU	183	5.454	-15.588	32.507	1.00	0.00
ATOM	2796	1HB	LEU	183	6.339	-13.060	33.825	1.00	0.00
ATOM	2797	2HB	LEU	183	6.251	-13.101	32.074	1.00	0.00
ATOM	2798	HG	LEU	183	7.686	-15.368	33.283	1.00	0.00
ATOM	2799	1HD1	LEU	183	8.776	-15.361	31.317	1.00	0.00
ATOM	2800	2HD1	LEU	183	8.945	-13.605	31.296	1.00	0.00
ATOM	2801	3HD1	LEU	183	7.427	-14.351	30.797	1.00	0.00
ATOM	2802	1HD2	LEU	183	9.316	-14.298	34.375	1.00	0.00
ATOM	2803	2HD2	LEU	183	8.196	-12.937	34.447	1.00	0.00
ATOM	2804	3HD2	LEU	183	9.406	-13.017	33.166	1.00	0.00



ENDMDL	19								
MODEL									
ATOM	3	N	GLY	-4	-27.959	22.772	-2.830	1.00	0.00
ATOM	4	CA	GLY	-4	-28.515	21.399	-2.805	1.00	0.00
ATOM	1	C	GLY	-4	-27.474	20.386	-2.390	1.00	0.00
ATOM	2	O	GLY	-4	-26.546	20.725	-1.655	1.00	0.00
ATOM	5	1HA	GLY	-4	-29.339	21.363	-2.107	1.00	0.00
ATOM	6	2HA	GLY	-4	-28.879	21.149	-3.791	1.00	0.00
ATOM	7	1HT	GLY	-4	-27.349	22.926	-1.998	1.00	0.00
ATOM	8	2HT	GLY	-4	-28.726	23.476	-2.822	1.00	0.00
ATOM	9	3HT	GLY	-4	-27.385	22.910	-3.691	1.00	0.00
ATOM	10	N	PRO	-3	-27.592	19.133	-2.851	1.00	0.00
ATOM	11	CA	PRO	-3	-26.638	18.074	-2.523	1.00	0.00
ATOM	15	C	PRO	-3	-25.276	18.336	-3.152	1.00	0.00
ATOM	16	O	PRO	-3	-25.187	18.684	-4.331	1.00	0.00
ATOM	12	CB	PRO	-3	-27.262	16.804	-3.121	1.00	0.00
ATOM	13	CG	PRO	-3	-28.668	17.171	-3.458	1.00	0.00
ATOM	14	CD	PRO	-3	-28.659	18.645	-3.733	1.00	0.00
ATOM	17	HA	PRO	-3	-26.524	17.958	-1.454	1.00	0.00
ATOM	18	1HB	PRO	-3	-27.227	16.008	-2.393	1.00	0.00
ATOM	19	2HB	PRO	-3	-26.709	16.514	-4.004	1.00	0.00
ATOM	20	1HG	PRO	-3	-29.314	16.949	-2.621	1.00	0.00
ATOM	21	2HG	PRO	-3	-28.989	16.628	-4.335	1.00	0.00
ATOM	22	1HD	PRO	-3	-29.609	19.086	-3.470	1.00	0.00
ATOM	23	2HD	PRO	-3	-28.424	18.838	-4.770	1.00	0.00
ATOM	24	N	LEU	-2	-24.226	18.176	-2.366	1.00	0.00
ATOM	25	CA	LEU	-2	-22.872	18.397	-2.851	1.00	0.00
ATOM	30	C	LEU	-2	-22.400	17.194	-3.665	1.00	0.00
ATOM	31	O	LEU	-2	-22.498	17.181	-4.894	1.00	0.00
ATOM	26	CB	LEU	-2	-21.920	18.647	-1.676	1.00	0.00
ATOM	27	CG	LEU	-2	-21.770	20.111	-1.260	1.00	0.00
ATOM	28	CD1	LEU	-2	-22.801	20.477	-0.203	1.00	0.00
ATOM	29	CD2	LEU	-2	-20.364	20.372	-0.747	1.00	0.00
ATOM	32	H	LEU	-2	-24.366	17.903	-1.430	1.00	0.00
ATOM	33	HA	LEU	-2	-22.883	19.268	-3.487	1.00	0.00
ATOM	34	1HB	LEU	-2	-20.944	18.273	-1.946	1.00	0.00
ATOM	35	2HB	LEU	-2	-22.277	18.086	-0.823	1.00	0.00
ATOM	36	HG	LEU	-2	-21.936	20.741	-2.121	1.00	0.00
ATOM	37	1HD1	LEU	-2	-23.705	20.819	-0.684	1.00	0.00
ATOM	38	2HD1	LEU	-2	-22.407	21.264	0.425	1.00	0.00
ATOM	39	3HD1	LEU	-2	-23.020	19.610	0.404	1.00	0.00
ATOM	40	1HD2	LEU	-2	-19.677	19.682	-1.212	1.00	0.00
ATOM	41	2HD2	LEU	-2	-20.341	20.237	0.325	1.00	0.00
ATOM	42	3HD2	LEU	-2	-20.076	21.385	-0.988	1.00	0.00
ATOM	43	N	GLY	-1	-21.901	16.179	-2.976	1.00	0.00
ATOM	44	CA	GLY	-1	-21.435	14.989	-3.649	1.00	0.00
ATOM	45	C	GLY	-1	-21.657	13.747	-2.819	1.00	0.00
ATOM	46	O	GLY	-1	-21.478	13.769	-1.602	1.00	0.00
ATOM	47	H	GLY	-1	-21.856	16.237	-1.999	1.00	0.00
ATOM	48	1HA	GLY	-1	-20.379	15.091	-3.852	1.00	0.00
ATOM	49	2HA	GLY	-1	-21.964	14.886	-4.585	1.00	0.00
ATOM	50	N	SER	0	-22.059	12.672	-3.477	1.00	0.00
ATOM	51	CA	SER	0	-22.320	11.407	-2.811	1.00	0.00
ATOM	54	C	SER	0	-21.014	10.657	-2.554	1.00	0.00
ATOM	55	O	SER	0	-20.778	10.168	-1.449	1.00	0.00
ATOM	52	CB	SER	0	-23.249	10.578	-3.692	1.00	0.00
ATOM	53	OG	SER	0	-23.400	11.202	-4.962	1.00	0.00
ATOM	56	H	SER	0	-22.196	12.727	-4.446	1.00	0.00
ATOM	57	HA	SER	0	-22.807	11.613	-1.869	1.00	0.00
ATOM	58	1HB	SER	0	-24.219	10.501	-3.223	1.00	0.00
ATOM	59	2HB	SER	0	-22.831	9.593	-3.831	1.00	0.00
ATOM	60	HG	SER	0	-24.036	10.706	-5.496	1.00	0.00
ATOM	61	N	MET	1	-20.178	10.587	-3.599	1.00	0.00
ATOM	62	CA	MET	1	-18.875	9.912	-3.552	1.00	0.00
ATOM	67	C	MET	1	-19.024	8.390	-3.549	1.00	0.00
ATOM	68	O	MET	1	-20.033	7.845	-3.101	1.00	0.00
ATOM	63	CB	MET	1	-18.046	10.367	-2.342	1.00	0.00
ATOM	64	CG	MET	1	-16.695	10.957	-2.716	1.00	0.00
ATOM	65	SD	MET	1	-15.959	10.154	-4.156	1.00	0.00
ATOM	66	CE	MET	1	-14.241	10.624	-3.963	1.00	0.00
ATOM	69	H	MET	1	-20.452	11.008	-4.439	1.00	0.00
ATOM	70	HA	MET	1	-18.344	10.191	-4.450	1.00	0.00
ATOM	71	1HB	MET	1	-17.878	9.519	-1.695	1.00	0.00



ATOM	72	2HB	MET	1	-18.604	11.117	-1.801	1.00	0.00
ATOM	73	1HG	MET	1	-16.024	10.846	-1.878	1.00	0.00
ATOM	74	2HG	MET	1	-16.825	12.005	-2.937	1.00	0.00
ATOM	75	1HE	MET	1	-13.631	10.049	-4.644	1.00	0.00
ATOM	76	2HE	MET	1	-13.926	10.432	-2.948	1.00	0.00
ATOM	77	3HE	MET	1	-14.129	11.677	-4.181	1.00	0.00
ATOM	78	N	ALA	2	-18.004	7.712	-4.060	1.00	0.00
ATOM	79	CA	ALA	2	-17.989	6.258	-4.130	1.00	0.00
ATOM	81	C	ALA	2	-16.559	5.762	-4.293	1.00	0.00
ATOM	82	O	ALA	2	-15.681	6.520	-4.702	1.00	0.00
ATOM	80	CB	ALA	2	-18.854	5.767	-5.283	1.00	0.00
ATOM	83	H	ALA	2	-17.225	8.206	-4.403	1.00	0.00
ATOM	84	HA	ALA	2	-18.397	5.870	-3.207	1.00	0.00
ATOM	85	1HB	ALA	2	-19.896	5.886	-5.028	1.00	0.00
ATOM	86	2HB	ALA	2	-18.646	4.724	-5.470	1.00	0.00
ATOM	87	3HB	ALA	2	-18.631	6.342	-6.170	1.00	0.00
ATOM	88	N	THR	3	-16.326	4.496	-3.978	1.00	0.00
ATOM	89	CA	THR	3	-14.999	3.921	-4.102	1.00	0.00
ATOM	93	C	THR	3	-14.912	3.059	-5.362	1.00	0.00
ATOM	94	O	THR	3	-15.873	2.375	-5.723	1.00	0.00
ATOM	90	CB	THR	3	-14.618	3.088	-2.852	1.00	0.00
ATOM	91	OG1	THR	3	-14.780	1.687	-3.104	1.00	0.00
ATOM	92	CG2	THR	3	-15.460	3.488	-1.647	1.00	0.00
ATOM	95	H	THR	3	-17.060	3.931	-3.660	1.00	0.00
ATOM	96	HA	THR	3	-14.295	4.736	-4.193	1.00	0.00
ATOM	97	HB	THR	3	-13.583	3.282	-2.621	1.00	0.00
ATOM	98	HG1	THR	3	-15.461	1.328	-2.514	1.00	0.00
ATOM	99	1HG2	THR	3	-16.254	2.767	-1.507	1.00	0.00
ATOM	100	2HG2	THR	3	-15.887	4.465	-1.814	1.00	0.00
ATOM	101	3HG2	THR	3	-14.837	3.513	-0.765	1.00	0.00
ATOM	102	N	PRO	4	-13.770	3.102	-6.066	1.00	0.00
ATOM	103	CA	PRO	4	-13.566	2.345	-7.303	1.00	0.00
ATOM	107	C	PRO	4	-13.243	0.876	-7.055	1.00	0.00
ATOM	108	O	PRO	4	-13.186	0.075	-7.991	1.00	0.00
ATOM	104	CB	PRO	4	-12.371	3.044	-7.970	1.00	0.00
ATOM	105	CG	PRO	4	-12.023	4.209	-7.094	1.00	0.00
ATOM	106	CD	PRO	4	-12.595	3.910	-5.739	1.00	0.00
ATOM	109	HA	PRO	4	-14.426	2.411	-7.944	1.00	0.00
ATOM	110	1HB	PRO	4	-12.654	3.372	-8.960	1.00	0.00
ATOM	111	2HB	PRO	4	-11.546	2.351	-8.043	1.00	0.00
ATOM	112	1HG	PRO	4	-12.460	5.111	-7.493	1.00	0.00
ATOM	113	2HG	PRO	4	-10.950	4.310	-7.029	1.00	0.00
ATOM	114	1HD	PRO	4	-12.880	4.823	-5.236	1.00	0.00
ATOM	115	2HD	PRO	4	-11.890	3.349	-5.142	1.00	0.00
ATOM	116	N	ALA	5	-13.039	0.534	-5.792	1.00	0.00
ATOM	117	CA	ALA	5	-12.722	-0.836	-5.402	1.00	0.00
ATOM	119	C	ALA	5	-12.768	-0.989	-3.887	1.00	0.00
ATOM	120	O	ALA	5	-13.358	-1.933	-3.362	1.00	0.00
ATOM	118	CB	ALA	5	-11.348	-1.242	-5.924	1.00	0.00
ATOM	121	H	ALA	5	-13.113	1.224	-5.104	1.00	0.00
ATOM	122	HA	ALA	5	-13.459	-1.489	-5.844	1.00	0.00
ATOM	123	1HB	ALA	5	-11.301	-1.061	-6.988	1.00	0.00
ATOM	124	2HB	ALA	5	-11.185	-2.291	-5.730	1.00	0.00
ATOM	125	3HB	ALA	5	-10.587	-0.661	-5.425	1.00	0.00
ATOM	126	N	SER	6	-12.137	-0.062	-3.187	1.00	0.00
ATOM	127	CA	SER	6	-12.106	-0.099	-1.736	1.00	0.00
ATOM	130	C	SER	6	-11.920	1.299	-1.168	1.00	0.00
ATOM	131	O	SER	6	-11.277	2.147	-1.784	1.00	0.00
ATOM	128	CB	SER	6	-10.987	-1.026	-1.258	1.00	0.00
ATOM	129	OG	SER	6	-11.356	-2.384	-1.434	1.00	0.00
ATOM	132	H	SER	6	-11.679	0.668	-3.653	1.00	0.00
ATOM	133	HA	SER	6	-13.054	-0.489	-1.396	1.00	0.00
ATOM	134	1HB	SER	6	-10.797	-0.850	-0.209	1.00	0.00
ATOM	135	2HB	SER	6	-10.089	-0.831	-1.825	1.00	0.00
ATOM	136	HG	SER	6	-12.110	-2.428	-2.040	1.00	0.00
ATOM	137	N	ALA	7	-12.494	1.527	0.003	1.00	0.00
ATOM	138	CA	ALA	7	-12.398	2.817	0.662	1.00	0.00
ATOM	140	C	ALA	7	-11.153	2.871	1.536	1.00	0.00
ATOM	141	O	ALA	7	-10.840	1.903	2.235	1.00	0.00
ATOM	139	CB	ALA	7	-13.645	3.069	1.497	1.00	0.00
ATOM	142	H	ALA	7	-12.997	0.809	0.437	1.00	0.00
ATOM	143	HA	ALA	7	-12.335	3.582	-0.097	1.00	0.00
ATOM	144	1HB	ALA	7	-14.029	2.129	1.864	1.00	0.00



ATOM	145	2HB	ALA	7	-14.395	3.550	0.887	1.00	0.00
ATOM	146	3HB	ALA	7	-13.396	3.707	2.332	1.00	0.00
ATOM	147	N	PRO	8	-10.428	4.002	1.509	1.00	0.00
ATOM	148	CA	PRO	8	-9.204	4.202	2.297	1.00	0.00
ATOM	152	C	PRO	8	-9.500	4.449	3.775	1.00	0.00
ATOM	153	O	PRO	8	-8.808	5.217	4.444	1.00	0.00
ATOM	149	CB	PRO	8	-8.558	5.449	1.667	1.00	0.00
ATOM	150	CG	PRO	8	-9.378	5.771	0.459	1.00	0.00
ATOM	151	CD	PRO	8	-10.736	5.186	0.703	1.00	0.00
ATOM	154	HA	PRO	8	-8.532	3.360	2.203	1.00	0.00
ATOM	155	1HB	PRO	8	-7.536	5.227	1.399	1.00	0.00
ATOM	156	2HB	PRO	8	-8.576	6.260	2.380	1.00	0.00
ATOM	157	1HG	PRO	8	-8.931	5.326	-0.417	1.00	0.00
ATOM	158	2HG	PRO	8	-9.450	6.842	0.340	1.00	0.00
ATOM	159	1HD	PRO	8	-11.204	4.907	-0.229	1.00	0.00
ATOM	160	2HD	PRO	8	-11.358	5.879	1.251	1.00	0.00
ATOM	161	N	ASP	9	-10.537	3.791	4.272	1.00	0.00
ATOM	162	CA	ASP	9	-10.945	3.928	5.661	1.00	0.00
ATOM	167	C	ASP	9	-10.141	2.984	6.549	1.00	0.00
ATOM	168	O	ASP	9	-9.057	2.533	6.174	1.00	0.00
ATOM	163	CB	ASP	9	-12.445	3.645	5.801	1.00	0.00
ATOM	164	CG	ASP	9	-13.302	4.846	5.445	1.00	0.00
ATOM	165	OD1	ASP	9	-13.520	5.086	4.239	1.00	0.00
ATOM	166	OD2	ASP	9	-13.761	5.549	6.368	1.00	0.00
ATOM	169	H	ASP	9	-11.046	3.199	3.683	1.00	0.00
ATOM	170	HA	ASP	9	-10.749	4.946	5.964	1.00	0.00
ATOM	171	1HB	ASP	9	-12.657	3.363	6.822	1.00	0.00
ATOM	172	2HB	ASP	9	-12.714	2.830	5.145	1.00	0.00
ATOM	173	N	THR	10	-10.678	2.689	7.724	1.00	0.00
ATOM	174	CA	THR	10	-10.029	1.812	8.684	1.00	0.00
ATOM	178	C	THR	10	-9.716	0.441	8.091	1.00	0.00
ATOM	179	O	THR	10	-8.698	-0.159	8.419	1.00	0.00
ATOM	175	CB	THR	10	-10.913	1.638	9.926	1.00	0.00
ATOM	176	OG1	THR	10	-12.125	2.386	9.750	1.00	0.00
ATOM	177	CG2	THR	10	-10.193	2.109	11.180	1.00	0.00
ATOM	180	H	THR	10	-11.542	3.080	7.962	1.00	0.00
ATOM	181	HA	THR	10	-9.103	2.280	8.990	1.00	0.00
ATOM	182	HB	THR	10	-11.155	0.591	10.036	1.00	0.00
ATOM	183	HG1	THR	10	-12.885	1.772	9.737	1.00	0.00
ATOM	184	1HG2	THR	10	-9.542	1.326	11.538	1.00	0.00
ATOM	185	2HG2	THR	10	-10.918	2.352	11.942	1.00	0.00
ATOM	186	3HG2	THR	10	-9.606	2.986	10.950	1.00	0.00
ATOM	187	N	ARG	11	-10.586	-0.052	7.215	1.00	0.00
ATOM	188	CA	ARG	11	-10.379	-1.356	6.587	1.00	0.00
ATOM	196	C	ARG	11	-9.120	-1.354	5.724	1.00	0.00
ATOM	197	O	ARG	11	-8.362	-2.323	5.717	1.00	0.00
ATOM	189	CB	ARG	11	-11.607	-1.765	5.754	1.00	0.00
ATOM	190	CG	ARG	11	-11.861	-0.882	4.538	1.00	0.00
ATOM	191	CD	ARG	11	-13.071	-1.348	3.745	1.00	0.00
ATOM	192	NE	ARG	11	-12.697	-1.998	2.486	1.00	0.00
ATOM	193	CZ	ARG	11	-13.531	-2.745	1.755	1.00	0.00
ATOM	194	NH1	ARG	11	-14.790	-2.917	2.139	1.00	0.00
ATOM	195	NH2	ARG	11	-13.110	-3.313	0.632	1.00	0.00
ATOM	198	H	ARG	11	-11.384	0.472	6.989	1.00	0.00
ATOM	199	HA	ARG	11	-10.236	-2.079	7.379	1.00	0.00
ATOM	200	1HB	ARG	11	-12.483	-1.728	6.386	1.00	0.00
ATOM	201	2HB	ARG	11	-11.469	-2.778	5.409	1.00	0.00
ATOM	202	1HG	ARG	11	-10.990	-0.910	3.899	1.00	0.00
ATOM	203	2HG	ARG	11	-12.031	0.131	4.871	1.00	0.00
ATOM	204	1HD	ARG	11	-13.692	-0.491	3.525	1.00	0.00
ATOM	205	2HD	ARG	11	-13.630	-2.049	4.346	1.00	0.00
ATOM	206	HE	ARG	11	-11.772	-1.878	2.177	1.00	0.00
ATOM	207	1HH1	ARG	11	-15.127	-2.490	2.989	1.00	0.00
ATOM	208	2HH1	ARG	11	-15.420	-3.468	1.577	1.00	0.00
ATOM	209	1HH2	ARG	11	-12.165	-3.183	0.316	1.00	0.00
ATOM	210	2HH2	ARG	11	-13.736	-3.903	0.099	1.00	0.00
ATOM	211	N	ALA	12	-8.889	-0.259	5.016	1.00	0.00
ATOM	212	CA	ALA	12	-7.714	-0.145	4.172	1.00	0.00
ATOM	214	C	ALA	12	-6.485	0.137	5.016	1.00	0.00
ATOM	215	O	ALA	12	-5.387	-0.293	4.688	1.00	0.00
ATOM	213	CB	ALA	12	-7.907	0.945	3.131	1.00	0.00
ATOM	216	H	ALA	12	-9.513	0.495	5.072	1.00	0.00
ATOM	217	HA	ALA	12	-7.579	-1.086	3.657	1.00	0.00



ATOM	218	1HB	ALA	12	-7.255	1.777	3.356	1.00	0.00
ATOM	219	2HB	ALA	12	-8.934	1.278	3.146	1.00	0.00
ATOM	220	3HB	ALA	12	-7.670	0.554	2.153	1.00	0.00
ATOM	221	N	LEU	13	-6.679	0.866	6.105	1.00	0.00
ATOM	222	CA	LEU	13	-5.581	1.212	6.993	1.00	0.00
ATOM	227	C	LEU	13	-5.147	0.012	7.840	1.00	0.00
ATOM	228	O	LEU	13	-3.953	-0.225	8.018	1.00	0.00
ATOM	223	CB	LEU	13	-5.983	2.398	7.872	1.00	0.00
ATOM	224	CG	LEU	13	-5.185	2.575	9.162	1.00	0.00
ATOM	225	CD1	LEU	13	-3.836	3.216	8.875	1.00	0.00
ATOM	226	CD2	LEU	13	-5.977	3.416	10.149	1.00	0.00
ATOM	229	H	LEU	13	-7.589	1.189	6.315	1.00	0.00
ATOM	230	HA	LEU	13	-4.747	1.509	6.374	1.00	0.00
ATOM	231	1HB	LEU	13	-7.025	2.287	8.132	1.00	0.00
ATOM	232	2HB	LEU	13	-5.871	3.299	7.284	1.00	0.00
ATOM	233	HG	LEU	13	-5.011	1.607	9.609	1.00	0.00
ATOM	234	1HD1	LEU	13	-3.788	3.501	7.835	1.00	0.00
ATOM	235	2HD1	LEU	13	-3.050	2.508	9.091	1.00	0.00
ATOM	236	3HD1	LEU	13	-3.714	4.092	9.495	1.00	0.00
ATOM	237	1HD2	LEU	13	-5.296	3.928	10.814	1.00	0.00
ATOM	238	2HD2	LEU	13	-6.629	2.776	10.726	1.00	0.00
ATOM	239	3HD2	LEU	13	-6.568	4.142	9.611	1.00	0.00
ATOM	240	N	VAL	14	-6.109	-0.751	8.356	1.00	0.00
ATOM	241	CA	VAL	14	-5.785	-1.918	9.172	1.00	0.00
ATOM	245	C	VAL	14	-5.091	-2.982	8.321	1.00	0.00
ATOM	246	O	VAL	14	-4.153	-3.640	8.774	1.00	0.00
ATOM	242	CB	VAL	14	-7.031	-2.514	9.886	1.00	0.00
ATOM	243	CG1	VAL	14	-7.919	-3.301	8.931	1.00	0.00
ATOM	244	CG2	VAL	14	-6.603	-3.387	11.057	1.00	0.00
ATOM	247	H	VAL	14	-7.052	-0.526	8.184	1.00	0.00
ATOM	248	HA	VAL	14	-5.089	-1.591	9.934	1.00	0.00
ATOM	249	HB	VAL	14	-7.616	-1.697	10.282	1.00	0.00
ATOM	250	1HG1	VAL	14	-8.461	-2.616	8.296	1.00	0.00
ATOM	251	2HG1	VAL	14	-8.620	-3.897	9.498	1.00	0.00
ATOM	252	3HG1	VAL	14	-7.306	-3.949	8.322	1.00	0.00
ATOM	253	1HG2	VAL	14	-6.447	-2.769	11.929	1.00	0.00
ATOM	254	2HG2	VAL	14	-5.685	-3.897	10.809	1.00	0.00
ATOM	255	3HG2	VAL	14	-7.374	-4.116	11.266	1.00	0.00
ATOM	256	N	ALA	15	-5.536	-3.131	7.076	1.00	0.00
ATOM	257	CA	ALA	15	-4.935	-4.099	6.171	1.00	0.00
ATOM	259	C	ALA	15	-3.572	-3.609	5.689	1.00	0.00
ATOM	260	O	ALA	15	-2.706	-4.408	5.332	1.00	0.00
ATOM	258	CB	ALA	15	-5.852	-4.367	4.988	1.00	0.00
ATOM	261	H	ALA	15	-6.283	-2.569	6.760	1.00	0.00
ATOM	262	HA	ALA	15	-4.802	-5.024	6.712	1.00	0.00
ATOM	263	1HB	ALA	15	-5.258	-4.543	4.103	1.00	0.00
ATOM	264	2HB	ALA	15	-6.492	-3.511	4.828	1.00	0.00
ATOM	265	3HB	ALA	15	-6.458	-5.237	5.193	1.00	0.00
ATOM	266	N	ASP	16	-3.395	-2.293	5.691	1.00	0.00
ATOM	267	CA	ASP	16	-2.146	-1.675	5.255	1.00	0.00
ATOM	272	C	ASP	16	-1.059	-1.832	6.311	1.00	0.00
ATOM	273	O	ASP	16	-0.021	-2.426	6.045	1.00	0.00
ATOM	268	CB	ASP	16	-2.381	-0.191	4.922	1.00	0.00
ATOM	269	CG	ASP	16	-1.312	0.758	5.449	1.00	0.00
ATOM	270	OD1	ASP	16	-0.209	0.800	4.871	1.00	0.00
ATOM	271	OD2	ASP	16	-1.602	1.501	6.414	1.00	0.00
ATOM	274	H	ASP	16	-4.128	-1.715	5.990	1.00	0.00
ATOM	275	HA	ASP	16	-1.826	-2.184	4.359	1.00	0.00
ATOM	276	1HB	ASP	16	-3.333	0.110	5.338	1.00	0.00
ATOM	277	2HB	ASP	16	-2.421	-0.082	3.851	1.00	0.00
ATOM	278	N	PHE	17	-1.302	-1.294	7.500	1.00	0.00
ATOM	279	CA	PHE	17	-0.332	-1.364	8.586	1.00	0.00
ATOM	287	C	PHE	17	0.052	-2.801	8.908	1.00	0.00
ATOM	288	O	PHE	17	1.238	-3.133	8.987	1.00	0.00
ATOM	280	CB	PHE	17	-0.873	-0.682	9.840	1.00	0.00
ATOM	281	CG	PHE	17	0.211	-0.211	10.768	1.00	0.00
ATOM	282	CD1	PHE	17	1.181	0.676	10.329	1.00	0.00
ATOM	283	CD2	PHE	17	0.265	-0.664	12.074	1.00	0.00
ATOM	284	CE1	PHE	17	2.183	1.104	11.179	1.00	0.00
ATOM	285	CE2	PHE	17	1.265	-0.242	12.929	1.00	0.00
ATOM	286	CZ	PHE	17	2.226	0.644	12.481	1.00	0.00
ATOM	289	H	PHE	17	-2.151	-0.822	7.642	1.00	0.00
ATOM	290	HA	PHE	17	0.554	-0.838	8.264	1.00	0.00



ATOM	291	1HB	PHE	17	-1.496	-1.379	10.380	1.00	0.00
ATOM	292	2HB	PHE	17	-1.463	0.177	9.554	1.00	0.00
ATOM	293	HD1	PHE	17	-0.485	-1.357	12.427	1.00	0.00
ATOM	294	HD2	PHE	17	1.148	1.037	9.312	1.00	0.00
ATOM	295	HE1	PHE	17	1.296	-0.603	13.946	1.00	0.00
ATOM	296	HE2	PHE	17	2.933	1.797	10.825	1.00	0.00
ATOM	297	HZ	PHE	17	3.008	0.975	13.147	1.00	0.00
ATOM	298	N	VAL	18	-0.946	-3.653	9.091	1.00	0.00
ATOM	299	CA	VAL	18	-0.691	-5.050	9.401	1.00	0.00
ATOM	303	C	VAL	18	-0.038	-5.742	8.211	1.00	0.00
ATOM	304	O	VAL	18	0.912	-6.504	8.372	1.00	0.00
ATOM	300	CB	VAL	18	-1.989	-5.790	9.801	1.00	0.00
ATOM	301	CG1	VAL	18	-1.741	-7.281	9.981	1.00	0.00
ATOM	302	CG2	VAL	18	-2.572	-5.190	11.072	1.00	0.00
ATOM	305	H	VAL	18	-1.872	-3.335	9.014	1.00	0.00
ATOM	306	HA	VAL	18	-0.007	-5.084	10.238	1.00	0.00
ATOM	307	HB	VAL	18	-2.710	-5.661	9.007	1.00	0.00
ATOM	308	1HG1	VAL	18	-1.626	-7.501	11.032	1.00	0.00
ATOM	309	2HG1	VAL	18	-0.843	-7.562	9.453	1.00	0.00
ATOM	310	3HG1	VAL	18	-2.581	-7.835	9.587	1.00	0.00
ATOM	311	1HG2	VAL	18	-2.326	-4.140	11.121	1.00	0.00
ATOM	312	2HG2	VAL	18	-2.160	-5.698	11.932	1.00	0.00
ATOM	313	3HG2	VAL	18	-3.646	-5.308	11.066	1.00	0.00
ATOM	314	N	GLY	19	-0.532	-5.449	7.016	1.00	0.00
ATOM	315	CA	GLY	19	0.034	-6.038	5.818	1.00	0.00
ATOM	316	C	GLY	19	1.486	-5.655	5.633	1.00	0.00
ATOM	317	O	GLY	19	2.341	-6.514	5.458	1.00	0.00
ATOM	318	H	GLY	19	-1.275	-4.810	6.943	1.00	0.00
ATOM	319	1HA	GLY	19	-0.528	-5.701	4.959	1.00	0.00
ATOM	320	2HA	GLY	19	-0.038	-7.114	5.886	1.00	0.00
ATOM	321	N	TYR	20	1.748	-4.359	5.670	1.00	0.00
ATOM	322	CA	TYR	20	3.090	-3.814	5.509	1.00	0.00
ATOM	331	C	TYR	20	4.054	-4.386	6.547	1.00	0.00
ATOM	332	O	TYR	20	5.165	-4.791	6.209	1.00	0.00
ATOM	323	CB	TYR	20	3.039	-2.281	5.611	1.00	0.00
ATOM	324	CG	TYR	20	4.369	-1.627	5.918	1.00	0.00
ATOM	325	CD1	TYR	20	5.355	-1.521	4.946	1.00	0.00
ATOM	326	CD2	TYR	20	4.635	-1.115	7.183	1.00	0.00
ATOM	327	CE1	TYR	20	6.571	-0.928	5.226	1.00	0.00
ATOM	328	CE2	TYR	20	5.847	-0.519	7.469	1.00	0.00
ATOM	329	CZ	TYR	20	6.810	-0.428	6.489	1.00	0.00
ATOM	330	OH	TYR	20	8.023	0.155	6.773	1.00	0.00
ATOM	333	H	TYR	20	1.003	-3.733	5.803	1.00	0.00
ATOM	334	HA	TYR	20	3.434	-4.084	4.522	1.00	0.00
ATOM	335	1HB	TYR	20	2.346	-2.008	6.394	1.00	0.00
ATOM	336	2HB	TYR	20	2.686	-1.881	4.673	1.00	0.00
ATOM	337	HD1	TYR	20	5.165	-1.915	3.958	1.00	0.00
ATOM	338	HD2	TYR	20	3.879	-1.190	7.949	1.00	0.00
ATOM	339	HE1	TYR	20	7.326	-0.854	4.458	1.00	0.00
ATOM	340	HE2	TYR	20	6.037	-0.127	8.458	1.00	0.00
ATOM	341	HH	TYR	20	8.714	-0.526	6.737	1.00	0.00
ATOM	342	N	LYS	21	3.626	-4.413	7.806	1.00	0.00
ATOM	343	CA	LYS	21	4.457	-4.928	8.890	1.00	0.00
ATOM	349	C	LYS	21	4.755	-6.410	8.695	1.00	0.00
ATOM	350	O	LYS	21	5.894	-6.848	8.849	1.00	0.00
ATOM	344	CB	LYS	21	3.772	-4.709	10.242	1.00	0.00
ATOM	345	CG	LYS	21	4.689	-4.128	11.307	1.00	0.00
ATOM	346	CD	LYS	21	5.220	-5.206	12.243	1.00	0.00
ATOM	347	CE	LYS	21	5.866	-4.605	13.483	1.00	0.00
ATOM	348	NZ	LYS	21	7.286	-4.233	13.249	1.00	0.00
ATOM	351	H	LYS	21	2.728	-4.073	8.012	1.00	0.00
ATOM	352	HA	LYS	21	5.390	-4.382	8.879	1.00	0.00
ATOM	353	1HB	LYS	21	3.393	-5.655	10.599	1.00	0.00
ATOM	354	2HB	LYS	21	2.942	-4.031	10.104	1.00	0.00
ATOM	355	1HG	LYS	21	4.136	-3.402	11.887	1.00	0.00
ATOM	356	2HG	LYS	21	5.525	-3.643	10.824	1.00	0.00
ATOM	357	1HD	LYS	21	5.955	-5.796	11.715	1.00	0.00
ATOM	358	2HD	LYS	21	4.400	-5.839	12.548	1.00	0.00
ATOM	359	1HE	LYS	21	5.819	-5.330	14.283	1.00	0.00
ATOM	360	2HE	LYS	21	5.314	-3.722	13.768	1.00	0.00
ATOM	361	1HZ	LYS	21	7.452	-3.238	13.544	1.00	0.00
ATOM	362	2HZ	LYS	21	7.526	-4.325	12.245	1.00	0.00
ATOM	363	3HZ	LYS	21	7.917	-4.846	13.804	1.00	0.00



ATOM	364	N	LEU	22	3.723	-7.172	8.355	1.00	0.00
ATOM	365	CA	LEU	22	3.867	-8.607	8.138	1.00	0.00
ATOM	370	C	LEU	22	4.724	-8.868	6.908	1.00	0.00
ATOM	371	O	LEU	22	5.642	-9.677	6.940	1.00	0.00
ATOM	366	CB	LEU	22	2.492	-9.263	7.955	1.00	0.00
ATOM	367	CG	LEU	22	1.821	-9.777	9.232	1.00	0.00
ATOM	368	CD1	LEU	22	1.789	-8.697	10.301	1.00	0.00
ATOM	369	CD2	LEU	22	0.413	-10.257	8.921	1.00	0.00
ATOM	372	H	LEU	22	2.837	-6.758	8.248	1.00	0.00
ATOM	373	HA	LEU	22	4.351	-9.033	9.004	1.00	0.00
ATOM	374	1HB	LEU	22	2.606	-10.096	7.277	1.00	0.00
ATOM	375	2HB	LEU	22	1.834	-8.540	7.497	1.00	0.00
ATOM	376	HG	LEU	22	2.382	-10.614	9.624	1.00	0.00
ATOM	377	1HD1	LEU	22	2.060	-9.126	11.254	1.00	0.00
ATOM	378	2HD1	LEU	22	0.794	-8.281	10.363	1.00	0.00
ATOM	379	3HD1	LEU	22	2.491	-7.917	10.046	1.00	0.00
ATOM	380	1HD2	LEU	22	0.082	-9.822	7.990	1.00	0.00
ATOM	381	2HD2	LEU	22	-0.253	-9.957	9.717	1.00	0.00
ATOM	382	3HD2	LEU	22	0.411	-11.334	8.837	1.00	0.00
ATOM	383	N	ARG	23	4.411	-8.165	5.832	1.00	0.00
ATOM	384	CA	ARG	23	5.129	-8.292	4.568	1.00	0.00
ATOM	392	C	ARG	23	6.605	-7.924	4.728	1.00	0.00
ATOM	393	O	ARG	23	7.454	-8.388	3.968	1.00	0.00
ATOM	385	CB	ARG	23	4.460	-7.396	3.518	1.00	0.00
ATOM	386	CG	ARG	23	4.510	-7.923	2.104	1.00	0.00
ATOM	387	CD	ARG	23	4.174	-6.813	1.122	1.00	0.00
ATOM	388	NE	ARG	23	5.102	-5.683	1.234	1.00	0.00
ATOM	389	CZ	ARG	23	6.321	-5.650	0.692	1.00	0.00
ATOM	390	NH1	ARG	23	6.735	-6.637	-0.092	1.00	0.00
ATOM	391	NH2	ARG	23	7.108	-4.602	0.901	1.00	0.00
ATOM	394	H	ARG	23	3.661	-7.530	5.886	1.00	0.00
ATOM	395	HA	ARG	23	5.061	-9.320	4.247	1.00	0.00
ATOM	396	1HB	ARG	23	4.933	-6.428	3.522	1.00	0.00
ATOM	397	2HB	ARG	23	3.423	-7.269	3.786	1.00	0.00
ATOM	398	1HG	ARG	23	3.791	-8.721	1.996	1.00	0.00
ATOM	399	2HG	ARG	23	5.504	-8.292	1.898	1.00	0.00
ATOM	400	1HD	ARG	23	3.167	-6.459	1.330	1.00	0.00
ATOM	401	2HD	ARG	23	4.218	-7.208	0.118	1.00	0.00
ATOM	402	HE	ARG	23	4.799	-4.905	1.759	1.00	0.00
ATOM	403	1HH1	ARG	23	6.130	-7.412	-0.287	1.00	0.00
ATOM	404	2HH1	ARG	23	7.648	-6.608	-0.499	1.00	0.00
ATOM	405	1HH2	ARG	23	6.788	-3.834	1.458	1.00	0.00
ATOM	406	2HH2	ARG	23	8.035	-4.578	0.505	1.00	0.00
ATOM	407	N	GLN	24	6.900	-7.088	5.717	1.00	0.00
ATOM	408	CA	GLN	24	8.268	-6.657	5.974	1.00	0.00
ATOM	414	C	GLN	24	9.018	-7.641	6.871	1.00	0.00
ATOM	415	O	GLN	24	10.249	-7.656	6.884	1.00	0.00
ATOM	409	CB	GLN	24	8.277	-5.269	6.619	1.00	0.00
ATOM	410	CG	GLN	24	8.478	-4.137	5.625	1.00	0.00
ATOM	411	CD	GLN	24	9.511	-3.128	6.086	1.00	0.00
ATOM	412	OE1	GLN	24	9.274	-2.346	7.009	1.00	0.00
ATOM	413	NE2	GLN	24	10.664	-3.130	5.442	1.00	0.00
ATOM	416	H	GLN	24	6.175	-6.748	6.289	1.00	0.00
ATOM	417	HA	GLN	24	8.778	-6.600	5.024	1.00	0.00
ATOM	418	1HB	GLN	24	9.076	-5.228	7.346	1.00	0.00
ATOM	419	2HB	GLN	24	7.335	-5.114	7.123	1.00	0.00
ATOM	420	1HG	GLN	24	7.535	-3.629	5.484	1.00	0.00
ATOM	421	2HG	GLN	24	8.804	-4.556	4.685	1.00	0.00
ATOM	422	1HE2	GLN	24	10.786	-3.774	4.712	1.00	0.00
ATOM	423	2HE2	GLN	24	11.353	-2.489	5.719	1.00	0.00
ATOM	424	N	LYS	25	8.283	-8.448	7.634	1.00	0.00
ATOM	425	CA	LYS	25	8.909	-9.408	8.540	1.00	0.00
ATOM	431	C	LYS	25	7.965	-10.561	8.880	1.00	0.00
ATOM	432	O	LYS	25	7.455	-10.649	9.998	1.00	0.00
ATOM	426	CB	LYS	25	9.347	-8.702	9.829	1.00	0.00
ATOM	427	CG	LYS	25	10.581	-9.312	10.474	1.00	0.00
ATOM	428	CD	LYS	25	10.969	-8.567	11.742	1.00	0.00
ATOM	429	CE	LYS	25	11.627	-9.488	12.756	1.00	0.00
ATOM	430	NZ	LYS	25	12.053	-8.752	13.977	1.00	0.00
ATOM	433	H	LYS	25	7.303	-8.390	7.599	1.00	0.00
ATOM	434	HA	LYS	25	9.783	-9.807	8.047	1.00	0.00
ATOM	435	1HB	LYS	25	8.537	-8.745	10.542	1.00	0.00
ATOM	436	2HB	LYS	25	9.560	-7.667	9.604	1.00	0.00



ATOM	437	LHG	LYS	25	11.402	-9.266	9.775	1.00	0.00
ATOM	438	2HG	LYS	25	10.374	-10.343	10.723	1.00	0.00
ATOM	439	LHD	LYS	25	10.079	-8.140	12.182	1.00	0.00
ATOM	440	2HD	LYS	25	11.660	-7.778	11.486	1.00	0.00
ATOM	441	1HE	LYS	25	12.494	-9.945	12.301	1.00	0.00
ATOM	442	2HE	LYS	25	10.923	-10.257	13.038	1.00	0.00
ATOM	443	1HZ	LYS	25	13.065	-8.505	13.913	1.00	0.00
ATOM	444	2HZ	LYS	25	11.906	-9.344	14.825	1.00	0.00
ATOM	445	3HZ	LYS	25	11.501	-7.873	14.080	1.00	0.00
ATOM	446	N	GLY	26	7.736	-11.439	7.914	1.00	0.00
ATOM	447	CA	GLY	26	6.861	-12.574	8.139	1.00	0.00
ATOM	448	C	GLY	26	6.148	-13.016	6.882	1.00	0.00
ATOM	449	O	GLY	26	6.512	-14.014	6.259	1.00	0.00
ATOM	450	H	GLY	26	8.164	-11.318	7.041	1.00	0.00
ATOM	451	1HA	GLY	26	6.123	-12.304	8.880	1.00	0.00
ATOM	452	2HA	GLY	26	7.443	-13.400	8.516	1.00	0.00
ATOM	453	N	TYR	27	5.139	-12.257	6.497	1.00	0.00
ATOM	454	CA	TYR	27	4.364	-12.549	5.302	1.00	0.00
ATOM	463	C	TYR	27	5.047	-11.977	4.064	1.00	0.00
ATOM	464	O	TYR	27	4.457	-11.203	3.310	1.00	0.00
ATOM	455	CB	TYR	27	2.944	-11.988	5.442	1.00	0.00
ATOM	456	CG	TYR	27	1.917	-12.697	4.583	1.00	0.00
ATOM	457	CD1	TYR	27	2.054	-14.044	4.272	1.00	0.00
ATOM	458	CD2	TYR	27	0.814	-12.016	4.087	1.00	0.00
ATOM	459	CE1	TYR	27	1.119	-14.693	3.488	1.00	0.00
ATOM	460	CE2	TYR	27	-0.126	-12.659	3.302	1.00	0.00
ATOM	461	CZ	TYR	27	0.032	-13.996	3.005	1.00	0.00
ATOM	462	OH	TYR	27	-0.897	-14.638	2.216	1.00	0.00
ATOM	465	H	TYR	27	4.917	-11.462	7.029	1.00	0.00
ATOM	466	HA	TYR	27	4.307	-13.624	5.201	1.00	0.00
ATOM	467	LHB	TYR	27	2.948	-10.943	5.166	1.00	0.00
ATOM	468	2HB	TYR	27	2.631	-12.080	6.472	1.00	0.00
ATOM	469	HD1	TYR	27	0.693	-10.969	4.320	1.00	0.00
ATOM	470	HD2	TYR	27	2.906	-14.587	4.651	1.00	0.00
ATOM	471	HE1	TYR	27	-0.977	-12.112	2.924	1.00	0.00
ATOM	472	HE2	TYR	27	1.243	-15.741	3.257	1.00	0.00
ATOM	473	HH	TYR	27	-1.328	-15.331	2.725	1.00	0.00
ATOM	474	N	VAL	28	6.296	-12.370	3.857	1.00	0.00
ATOM	475	CA	VAL	28	7.064	-11.903	2.712	1.00	0.00
ATOM	479	C	VAL	28	6.659	-12.676	1.458	1.00	0.00
ATOM	480	O	VAL	28	6.714	-12.156	0.345	1.00	0.00
ATOM	476	CB	VAL	28	8.588	-12.034	2.964	1.00	0.00
ATOM	477	CG1	VAL	28	8.994	-13.484	3.185	1.00	0.00
ATOM	478	CG2	VAL	28	9.384	-11.419	1.821	1.00	0.00
ATOM	481	H	VAL	28	6.712	-12.993	4.495	1.00	0.00
ATOM	482	HA	VAL	28	6.832	-10.858	2.565	1.00	0.00
ATOM	483	HB	VAL	28	8.822	-11.485	3.865	1.00	0.00
ATOM	484	LHG1	VAL	28	8.362	-13.923	3.943	1.00	0.00
ATOM	485	2HG1	VAL	28	10.023	-13.525	3.508	1.00	0.00
ATOM	486	3HG1	VAL	28	8.885	-14.033	2.261	1.00	0.00
ATOM	487	LHG2	VAL	28	8.831	-11.525	0.900	1.00	0.00
ATOM	488	2HG2	VAL	28	10.335	-11.924	1.730	1.00	0.00
ATOM	489	3HG2	VAL	28	9.553	-10.372	2.022	1.00	0.00
ATOM	490	N	CYS	29	6.216	-13.912	1.657	1.00	0.00
ATOM	491	CA	CYS	29	5.768	-14.756	0.555	1.00	0.00
ATOM	494	C	CYS	29	4.382	-14.320	0.096	1.00	0.00
ATOM	495	O	CYS	29	3.923	-14.676	-0.988	1.00	0.00
ATOM	492	CB	CYS	29	5.745	-16.217	0.993	1.00	0.00
ATOM	493	SG	CYS	29	7.334	-16.819	1.609	1.00	0.00
ATOM	496	H	CYS	29	6.175	-14.259	2.570	1.00	0.00
ATOM	497	HA	CYS	29	6.464	-14.639	-0.263	1.00	0.00
ATOM	498	LHB	CYS	29	5.460	-16.830	0.154	1.00	0.00
ATOM	499	2HB	CYS	29	5.019	-16.338	1.784	1.00	0.00
ATOM	500	HG	CYS	29	8.289	-16.060	1.078	1.00	0.00
ATOM	501	N	GLY	30	3.735	-13.526	0.932	1.00	0.00
ATOM	502	CA	GLY	30	2.421	-13.014	0.621	1.00	0.00
ATOM	503	C	GLY	30	2.463	-11.524	0.391	1.00	0.00
ATOM	504	O	GLY	30	1.732	-10.761	1.025	1.00	0.00
ATOM	505	H	GLY	30	4.169	-13.270	1.768	1.00	0.00
ATOM	506	1HA	GLY	30	1.758	-13.222	1.442	1.00	0.00
ATOM	507	2HA	GLY	30	2.050	-13.501	-0.268	1.00	0.00
ATOM	508	N	ALA	31	3.336	-11.119	-0.513	1.00	0.00
ATOM	509	CA	ALA	31	3.509	-9.717	-0.853	1.00	0.00



ATOM	511	C	ALA	31	2.233	-9.158	-1.464	1.00	0.00
ATOM	512	O	ALA	31	1.526	-9.863	-2.183	1.00	0.00
ATOM	510	CB	ALA	31	4.675	-9.555	-1.815	1.00	0.00
ATOM	513	H	ALA	31	3.885	-11.789	-0.967	1.00	0.00
ATOM	514	HA	ALA	31	3.736	-9.174	0.053	1.00	0.00
ATOM	515	1HB	ALA	31	4.537	-10.210	-2.662	1.00	0.00
ATOM	516	2HB	ALA	31	5.597	-9.808	-1.311	1.00	0.00
ATOM	517	3HB	ALA	31	4.721	-8.532	-2.157	1.00	0.00
ATOM	518	N	GLY	32	1.930	-7.900	-1.180	1.00	0.00
ATOM	519	CA	GLY	32	0.725	-7.312	-1.736	1.00	0.00
ATOM	520	C	GLY	32	0.006	-6.365	-0.789	1.00	0.00
ATOM	521	O	GLY	32	-0.215	-5.207	-1.135	1.00	0.00
ATOM	522	H	GLY	32	2.525	-7.368	-0.598	1.00	0.00
ATOM	523	1HA	GLY	32	0.049	-8.109	-2.009	1.00	0.00
ATOM	524	2HA	GLY	32	0.991	-6.767	-2.629	1.00	0.00
ATOM	525	N	PRO	33	-0.389	-6.825	0.414	1.00	0.00
ATOM	526	CA	PRO	33	-1.107	-5.987	1.385	1.00	0.00
ATOM	530	C	PRO	33	-0.286	-4.786	1.834	1.00	0.00
ATOM	531	O	PRO	33	-0.788	-3.668	1.908	1.00	0.00
ATOM	527	CB	PRO	33	-1.354	-6.933	2.567	1.00	0.00
ATOM	528	CG	PRO	33	-1.237	-8.301	1.992	1.00	0.00
ATOM	529	CD	PRO	33	-0.191	-8.192	0.924	1.00	0.00
ATOM	532	HA	PRO	33	-2.052	-5.646	0.990	1.00	0.00
ATOM	533	1HB	PRO	33	-2.337	-6.758	2.971	1.00	0.00
ATOM	534	2HB	PRO	33	-0.609	-6.760	3.330	1.00	0.00
ATOM	535	1HG	PRO	33	-2.181	-8.606	1.563	1.00	0.00
ATOM	536	2HG	PRO	33	-0.926	-8.998	2.756	1.00	0.00
ATOM	537	1HD	PRO	33	-0.354	-8.919	0.149	1.00	0.00
ATOM	538	2HD	PRO	33	0.796	-8.306	1.350	1.00	0.00
ATOM	539	N	GLY	34	0.975	-5.035	2.142	1.00	0.00
ATOM	540	CA	GLY	34	1.848	-3.975	2.596	1.00	0.00
ATOM	541	C	GLY	34	2.818	-3.490	1.540	1.00	0.00
ATOM	542	O	GLY	34	3.977	-3.213	1.852	1.00	0.00
ATOM	543	H	GLY	34	1.310	-5.949	2.072	1.00	0.00
ATOM	544	1HA	GLY	34	2.413	-4.338	3.441	1.00	0.00
ATOM	545	2HA	GLY	34	1.245	-3.141	2.921	1.00	0.00
ATOM	546	N	GLU	35	2.364	-3.386	0.296	1.00	0.00
ATOM	547	CA	GLU	35	3.226	-2.917	-0.783	1.00	0.00
ATOM	553	C	GLU	35	3.334	-1.402	-0.739	1.00	0.00
ATOM	554	O	GLU	35	4.422	-0.842	-0.594	1.00	0.00
ATOM	548	CB	GLU	35	2.675	-3.335	-2.140	1.00	0.00
ATOM	549	CG	GLU	35	2.806	-4.811	-2.411	1.00	0.00
ATOM	550	CD	GLU	35	4.238	-5.299	-2.335	1.00	0.00
ATOM	551	OE1	GLU	35	5.153	-4.547	-2.735	1.00	0.00
ATOM	552	OE2	GLU	35	4.451	-6.430	-1.864	1.00	0.00
ATOM	555	H	GLU	35	1.433	-3.625	0.099	1.00	0.00
ATOM	556	HA	GLU	35	4.205	-3.352	-0.644	1.00	0.00
ATOM	557	1HB	GLU	35	3.207	-2.800	-2.913	1.00	0.00
ATOM	558	2HB	GLU	35	1.628	-3.073	-2.188	1.00	0.00
ATOM	559	1HG	GLU	35	2.420	-5.009	-3.393	1.00	0.00
ATOM	560	2HG	GLU	35	2.220	-5.351	-1.681	1.00	0.00
ATOM	561	N	GLY	36	2.184	-0.754	-0.869	1.00	0.00
ATOM	562	CA	GLY	36	2.127	0.695	-0.839	1.00	0.00
ATOM	563	C	GLY	36	2.413	1.244	0.544	1.00	0.00
ATOM	564	O	GLY	36	1.820	0.798	1.523	1.00	0.00
ATOM	565	H	GLY	36	1.360	-1.272	-0.983	1.00	0.00
ATOM	566	1HA	GLY	36	1.141	1.012	-1.145	1.00	0.00
ATOM	567	2HA	GLY	36	2.855	1.090	-1.533	1.00	0.00
ATOM	568	N	PRO	37	3.340	2.203	0.658	1.00	0.00
ATOM	569	CA	PRO	37	3.716	2.790	1.937	1.00	0.00
ATOM	573	C	PRO	37	2.852	3.990	2.335	1.00	0.00
ATOM	574	O	PRO	37	1.617	3.945	2.281	1.00	0.00
ATOM	570	CB	PRO	37	5.162	3.214	1.685	1.00	0.00
ATOM	571	CG	PRO	37	5.220	3.550	0.229	1.00	0.00
ATOM	572	CD	PRO	37	4.119	2.775	-0.453	1.00	0.00
ATOM	575	HA	PRO	37	3.692	2.058	2.730	1.00	0.00
ATOM	576	1HB	PRO	37	5.826	2.399	1.927	1.00	0.00
ATOM	577	2HB	PRO	37	5.399	4.072	2.298	1.00	0.00
ATOM	578	1HG	PRO	37	6.181	3.263	-0.172	1.00	0.00
ATOM	579	2HG	PRO	37	5.063	4.610	0.095	1.00	0.00
ATOM	580	1HD	PRO	37	4.537	1.992	-1.070	1.00	0.00
ATOM	581	2HD	PRO	37	3.506	3.435	-1.048	1.00	0.00
ATOM	582	N	ALA	38	3.515	5.060	2.744	1.00	0.00



ATOM	583	CA	ALA	38	2.846	6.277	3.169	1.00	0.00
ATOM	585	C	ALA	38	2.273	7.044	1.981	1.00	0.00
ATOM	586	O	ALA	38	2.959	7.856	1.367	1.00	0.00
ATOM	584	CB	ALA	38	3.818	7.148	3.943	1.00	0.00
ATOM	587	H	ALA	38	4.494	5.026	2.766	1.00	0.00
ATOM	588	HA	ALA	38	2.038	6.003	3.832	1.00	0.00
ATOM	589	1HB	ALA	38	3.687	8.181	3.652	1.00	0.00
ATOM	590	2HB	ALA	38	4.830	6.839	3.725	1.00	0.00
ATOM	591	3HB	ALA	38	3.631	7.046	5.001	1.00	0.00
ATOM	592	N	ALA	39	1.015	6.776	1.661	1.00	0.00
ATOM	593	CA	ALA	39	0.354	7.440	0.546	1.00	0.00
ATOM	595	C	ALA	39	-1.131	7.632	0.834	1.00	0.00
ATOM	596	O	ALA	39	-1.969	7.474	-0.049	1.00	0.00
ATOM	594	CB	ALA	39	0.557	6.643	-0.735	1.00	0.00
ATOM	597	H	ALA	39	0.520	6.110	2.179	1.00	0.00
ATOM	598	HA	ALA	39	0.814	8.410	0.417	1.00	0.00
ATOM	599	1HB	ALA	39	-0.150	6.974	-1.481	1.00	0.00
ATOM	600	2HB	ALA	39	0.402	5.592	-0.535	1.00	0.00
ATOM	601	3HB	ALA	39	1.562	6.796	-1.098	1.00	0.00
ATOM	602	N	ASP	40	-1.442	7.984	2.079	1.00	0.00
ATOM	603	CA	ASP	40	-2.821	8.215	2.498	1.00	0.00
ATOM	608	C	ASP	40	-2.840	9.129	3.715	1.00	0.00
ATOM	609	O	ASP	40	-1.814	9.305	4.376	1.00	0.00
ATOM	604	CB	ASP	40	-3.527	6.903	2.844	1.00	0.00
ATOM	605	CG	ASP	40	-4.302	6.330	1.678	1.00	0.00
ATOM	606	OD1	ASP	40	-5.029	7.097	1.010	1.00	0.00
ATOM	607	OD2	ASP	40	-4.187	5.112	1.436	1.00	0.00
ATOM	610	H	ASP	40	-0.728	8.108	2.730	1.00	0.00
ATOM	611	HA	ASP	40	-3.343	8.697	1.685	1.00	0.00
ATOM	612	1HB	ASP	40	-4.224	7.098	3.647	1.00	0.00
ATOM	613	2HB	ASP	40	-2.799	6.176	3.167	1.00	0.00
ATOM	614	N	PRO	41	-4.010	9.697	4.049	1.00	0.00
ATOM	615	CA	PRO	41	-4.167	10.585	5.197	1.00	0.00
ATOM	619	C	PRO	41	-4.351	9.815	6.504	1.00	0.00
ATOM	620	O	PRO	41	-5.265	10.092	7.287	1.00	0.00
ATOM	616	CB	PRO	41	-5.419	11.390	4.849	1.00	0.00
ATOM	617	CG	PRO	41	-6.221	10.517	3.937	1.00	0.00
ATOM	618	CD	PRO	41	-5.282	9.495	3.340	1.00	0.00
ATOM	621	HA	PRO	41	-3.324	11.253	5.295	1.00	0.00
ATOM	622	1HB	PRO	41	-5.130	12.308	4.361	1.00	0.00
ATOM	623	2HB	PRO	41	-5.963	11.617	5.755	1.00	0.00
ATOM	624	1HG	PRO	41	-6.659	11.119	3.154	1.00	0.00
ATOM	625	2HG	PRO	41	-6.997	10.021	4.499	1.00	0.00
ATOM	626	1HD	PRO	41	-5.158	9.659	2.285	1.00	0.00
ATOM	627	2HD	PRO	41	-5.653	8.498	3.517	1.00	0.00
ATOM	628	N	LEU	42	-3.458	8.856	6.721	1.00	0.00
ATOM	629	CA	LEU	42	-3.452	8.017	7.919	1.00	0.00
ATOM	634	C	LEU	42	-2.303	7.026	7.838	1.00	0.00
ATOM	635	O	LEU	42	-1.775	6.583	8.853	1.00	0.00
ATOM	630	CB	LEU	42	-4.771	7.245	8.105	1.00	0.00
ATOM	631	CG	LEU	42	-5.568	6.947	6.828	1.00	0.00
ATOM	632	CD1	LEU	42	-5.225	5.570	6.284	1.00	0.00
ATOM	633	CD2	LEU	42	-7.061	7.053	7.099	1.00	0.00
ATOM	636	H	LEU	42	-2.760	8.718	6.048	1.00	0.00
ATOM	637	HA	LEU	42	-3.292	8.664	8.770	1.00	0.00
ATOM	638	1HB	LEU	42	-5.403	7.816	8.770	1.00	0.00
ATOM	639	2HB	LEU	42	-4.536	6.305	8.585	1.00	0.00
ATOM	640	HG	LEU	42	-5.312	7.676	6.073	1.00	0.00
ATOM	641	1HD1	LEU	42	-5.982	4.863	6.588	1.00	0.00
ATOM	642	2HD1	LEU	42	-4.265	5.260	6.671	1.00	0.00
ATOM	643	3HD1	LEU	42	-5.183	5.609	5.205	1.00	0.00
ATOM	644	1HD2	LEU	42	-7.360	8.091	7.064	1.00	0.00
ATOM	645	2HD2	LEU	42	-7.278	6.648	8.076	1.00	0.00
ATOM	646	3HD2	LEU	42	-7.604	6.497	6.350	1.00	0.00
ATOM	647	N	HIS	43	-1.924	6.683	6.614	1.00	0.00
ATOM	648	CA	HIS	43	-0.838	5.738	6.376	1.00	0.00
ATOM	655	C	HIS	43	0.478	6.273	6.923	1.00	0.00
ATOM	656	O	HIS	43	1.129	5.627	7.740	1.00	0.00
ATOM	649	CB	HIS	43	-0.678	5.479	4.882	1.00	0.00
ATOM	650	CG	HIS	43	-1.489	4.335	4.337	1.00	0.00
ATOM	651	ND1	HIS	43	-1.082	3.585	3.254	1.00	0.00
ATOM	652	CD2	HIS	43	-2.716	3.859	4.679	1.00	0.00
ATOM	653	CE1	HIS	43	-2.022	2.711	2.949	1.00	0.00



ATOM	654	NE2	HIS	43	-3.025	2.853	3.798	1.00	0.00
ATOM	657	H	HIS	43	-2.392	7.070	5.848	1.00	0.00
ATOM	658	HA	HIS	43	-1.078	4.815	6.881	1.00	0.00
ATOM	659	1HB	HIS	43	0.362	5.279	4.685	1.00	0.00
ATOM	660	2HB	HIS	43	-0.969	6.368	4.344	1.00	0.00
ATOM	661	HD1	HIS	43	-0.210	3.646	2.803	1.00	0.00
ATOM	662	HD2	HIS	43	-3.337	4.203	5.503	1.00	0.00
ATOM	663	HE1	HIS	43	-1.980	2.000	2.137	1.00	0.00
ATOM	664	HE2	HIS	43	-3.725	2.183	3.941	1.00	0.00
ATOM	665	N	GLN	44	0.862	7.467	6.471	1.00	0.00
ATOM	666	CA	GLN	44	2.106	8.086	6.927	1.00	0.00
ATOM	672	C	GLN	44	2.027	8.378	8.413	1.00	0.00
ATOM	673	O	GLN	44	3.043	8.467	9.101	1.00	0.00
ATOM	667	CB	GLN	44	2.398	9.385	6.167	1.00	0.00
ATOM	668	CG	GLN	44	1.473	9.651	4.991	1.00	0.00
ATOM	669	CD	GLN	44	1.451	11.113	4.598	1.00	0.00
ATOM	670	OE1	GLN	44	0.477	11.816	4.849	1.00	0.00
ATOM	671	NE2	GLN	44	2.525	11.577	3.981	1.00	0.00
ATOM	674	H	GLN	44	0.300	7.941	5.824	1.00	0.00
ATOM	675	HA	GLN	44	2.908	7.386	6.751	1.00	0.00
ATOM	676	1HB	GLN	44	3.412	9.346	5.796	1.00	0.00
ATOM	677	2HB	GLN	44	2.313	10.214	6.855	1.00	0.00
ATOM	678	1HG	GLN	44	0.471	9.349	5.261	1.00	0.00
ATOM	679	2HG	GLN	44	1.809	9.069	4.145	1.00	0.00
ATOM	680	1HE2	GLN	44	3.266	10.960	3.810	1.00	0.00
ATOM	681	2HE2	GLN	44	2.542	12.532	3.725	1.00	0.00
ATOM	682	N	ALA	45	0.804	8.507	8.897	1.00	0.00
ATOM	683	CA	ALA	45	0.564	8.780	10.301	1.00	0.00
ATOM	685	C	ALA	45	0.969	7.590	11.160	1.00	0.00
ATOM	686	O	ALA	45	1.761	7.731	12.096	1.00	0.00
ATOM	684	CB	ALA	45	-0.897	9.133	10.528	1.00	0.00
ATOM	687	H	ALA	45	0.041	8.401	8.290	1.00	0.00
ATOM	688	HA	ALA	45	1.164	9.633	10.582	1.00	0.00
ATOM	689	1HB	ALA	45	-1.499	8.684	9.752	1.00	0.00
ATOM	690	2HB	ALA	45	-1.016	10.206	10.500	1.00	0.00
ATOM	691	3HB	ALA	45	-1.213	8.760	11.490	1.00	0.00
ATOM	692	N	MET	46	0.432	6.414	10.842	1.00	0.00
ATOM	693	CA	MET	46	0.754	5.216	11.609	1.00	0.00
ATOM	698	C	MET	46	2.193	4.773	11.368	1.00	0.00
ATOM	699	O	MET	46	2.824	4.190	12.249	1.00	0.00
ATOM	694	CB	MET	46	-0.208	4.078	11.274	1.00	0.00
ATOM	695	CG	MET	46	-0.757	3.376	12.507	1.00	0.00
ATOM	696	SD	MET	46	-1.962	4.376	13.395	1.00	0.00
ATOM	697	CE	MET	46	-3.100	4.762	12.072	1.00	0.00
ATOM	700	H	MET	46	-0.199	6.352	10.077	1.00	0.00
ATOM	701	HA	MET	46	0.644	5.464	12.656	1.00	0.00
ATOM	702	1HB	MET	46	0.312	3.348	10.670	1.00	0.00
ATOM	703	2HB	MET	46	-1.039	4.476	10.710	1.00	0.00
ATOM	704	1HG	MET	46	0.061	3.158	13.174	1.00	0.00
ATOM	705	2HG	MET	46	-1.228	2.455	12.206	1.00	0.00
ATOM	706	1HE	MET	46	-3.734	5.582	12.371	1.00	0.00
ATOM	707	2HE	MET	46	-3.707	3.895	11.858	1.00	0.00
ATOM	708	3HE	MET	46	-2.544	5.040	11.189	1.00	0.00
ATOM	709	N	ARG	47	2.708	5.051	10.176	1.00	0.00
ATOM	710	CA	ARG	47	4.075	4.674	9.824	1.00	0.00
ATOM	718	C	ARG	47	5.099	5.397	10.696	1.00	0.00
ATOM	719	O	ARG	47	6.094	4.804	11.115	1.00	0.00
ATOM	711	CB	ARG	47	4.350	4.965	8.348	1.00	0.00
ATOM	712	CG	ARG	47	5.110	3.853	7.643	1.00	0.00
ATOM	713	CD	ARG	47	6.600	4.152	7.573	1.00	0.00
ATOM	714	NE	ARG	47	7.412	2.956	7.798	1.00	0.00
ATOM	715	CZ	ARG	47	8.386	2.872	8.707	1.00	0.00
ATOM	716	NH1	ARG	47	8.677	3.910	9.481	1.00	0.00
ATOM	717	NH2	ARG	47	9.066	1.740	8.835	1.00	0.00
ATOM	720	H	ARG	47	2.153	5.518	9.513	1.00	0.00
ATOM	721	HA	ARG	47	4.172	3.611	9.990	1.00	0.00
ATOM	722	1HB	ARG	47	4.932	5.872	8.274	1.00	0.00
ATOM	723	2HB	ARG	47	3.408	5.109	7.838	1.00	0.00
ATOM	724	1HG	ARG	47	4.725	3.747	6.639	1.00	0.00
ATOM	725	2HG	ARG	47	4.964	2.931	8.186	1.00	0.00
ATOM	726	1HD	ARG	47	6.841	4.887	8.327	1.00	0.00
ATOM	727	2HD	ARG	47	6.828	4.551	6.596	1.00	0.00
ATOM	728	HE	ARG	47	7.222	2.169	7.237	1.00	0.00



ATOM	729	1HH1	ARG	47	8.167	4.764	9.393	1.00	0.00
ATOM	730	2HH1	ARG	47	9.421	3.841	10.168	1.00	0.00
ATOM	731	1HH2	ARG	47	8.845	0.952	8.250	1.00	0.00
ATOM	732	2HH2	ARG	47	9.805	1.664	9.519	1.00	0.00
ATOM	733	N	ALA	48	4.854	6.672	10.976	1.00	0.00
ATOM	734	CA	ALA	48	5.767	7.453	11.804	1.00	0.00
ATOM	736	C	ALA	48	5.554	7.107	13.266	1.00	0.00
ATOM	737	O	ALA	48	6.471	7.180	14.089	1.00	0.00
ATOM	735	CB	ALA	48	5.565	8.940	11.570	1.00	0.00
ATOM	738	H	ALA	48	4.039	7.096	10.629	1.00	0.00
ATOM	739	HA	ALA	48	6.780	7.195	11.526	1.00	0.00
ATOM	740	1HB	ALA	48	4.550	9.208	11.823	1.00	0.00
ATOM	741	2HB	ALA	48	5.749	9.169	10.531	1.00	0.00
ATOM	742	3HB	ALA	48	6.251	9.497	12.190	1.00	0.00
ATOM	743	N	ALA	49	4.334	6.710	13.577	1.00	0.00
ATOM	744	CA	ALA	49	3.983	6.323	14.927	1.00	0.00
ATOM	746	C	ALA	49	4.688	5.031	15.286	1.00	0.00
ATOM	747	O	ALA	49	5.488	4.994	16.224	1.00	0.00
ATOM	745	CB	ALA	49	2.479	6.164	15.051	1.00	0.00
ATOM	748	H	ALA	49	3.652	6.660	12.873	1.00	0.00
ATOM	749	HA	ALA	49	4.308	7.105	15.599	1.00	0.00
ATOM	750	1HB	ALA	49	2.255	5.519	15.888	1.00	0.00
ATOM	751	2HB	ALA	49	2.087	5.727	14.145	1.00	0.00
ATOM	752	3HB	ALA	49	2.026	7.131	15.210	1.00	0.00
ATOM	753	N	GLY	50	4.382	3.984	14.525	1.00	0.00
ATOM	754	CA	GLY	50	4.982	2.683	14.743	1.00	0.00
ATOM	755	C	GLY	50	6.489	2.756	14.844	1.00	0.00
ATOM	756	O	GLY	50	7.069	2.173	15.738	1.00	0.00
ATOM	757	H	GLY	50	3.733	4.099	13.796	1.00	0.00
ATOM	758	1HA	GLY	50	4.717	2.032	13.923	1.00	0.00
ATOM	759	2HA	GLY	50	4.590	2.267	15.660	1.00	0.00
ATOM	760	N	ASP	51	7.109	3.490	13.929	1.00	0.00
ATOM	761	CA	ASP	51	8.562	3.661	13.908	1.00	0.00
ATOM	766	C	ASP	51	9.101	4.126	15.262	1.00	0.00
ATOM	767	O	ASP	51	10.016	3.513	15.818	1.00	0.00
ATOM	762	CB	ASP	51	8.948	4.672	12.826	1.00	0.00
ATOM	763	CG	ASP	51	10.367	4.484	12.337	1.00	0.00
ATOM	764	OD1	ASP	51	10.565	3.719	11.369	1.00	0.00
ATOM	765	OD2	ASP	51	11.287	5.104	12.911	1.00	0.00
ATOM	768	H	ASP	51	6.576	3.934	13.243	1.00	0.00
ATOM	769	HA	ASP	51	9.007	2.708	13.668	1.00	0.00
ATOM	770	1HB	ASP	51	8.850	5.673	13.224	1.00	0.00
ATOM	771	2HB	ASP	51	8.281	4.559	11.985	1.00	0.00
ATOM	772	N	GLU	52	8.532	5.208	15.792	1.00	0.00
ATOM	773	CA	GLU	52	8.974	5.745	17.079	1.00	0.00
ATOM	779	C	GLU	52	8.729	4.746	18.216	1.00	0.00
ATOM	780	O	GLU	52	9.593	4.546	19.073	1.00	0.00
ATOM	774	CB	GLU	52	8.274	7.090	17.356	1.00	0.00
ATOM	775	CG	GLU	52	7.822	7.293	18.800	1.00	0.00
ATOM	776	CD	GLU	52	8.853	8.014	19.651	1.00	0.00
ATOM	777	OE1	GLU	52	9.956	8.304	19.142	1.00	0.00
ATOM	778	OE2	GLU	52	8.562	8.287	20.834	1.00	0.00
ATOM	781	H	GLU	52	7.803	5.659	15.306	1.00	0.00
ATOM	782	HA	GLU	52	10.038	5.918	17.009	1.00	0.00
ATOM	783	1HB	GLU	52	7.405	7.164	16.719	1.00	0.00
ATOM	784	2HB	GLU	52	8.956	7.889	17.107	1.00	0.00
ATOM	785	1HG	GLU	52	7.627	6.326	19.240	1.00	0.00
ATOM	786	2HG	GLU	52	6.913	7.875	18.799	1.00	0.00
ATOM	787	N	PHE	53	7.557	4.121	18.230	1.00	0.00
ATOM	788	CA	PHE	53	7.230	3.163	19.282	1.00	0.00
ATOM	796	C	PHE	53	8.006	1.858	19.123	1.00	0.00
ATOM	797	O	PHE	53	8.390	1.246	20.107	1.00	0.00
ATOM	789	CB	PHE	53	5.731	2.883	19.311	1.00	0.00
ATOM	790	CG	PHE	53	5.028	3.523	20.477	1.00	0.00
ATOM	791	CD1	PHE	53	5.287	4.842	20.823	1.00	0.00
ATOM	792	CD2	PHE	53	4.113	2.806	21.232	1.00	0.00
ATOM	793	CE1	PHE	53	4.648	5.431	21.899	1.00	0.00
ATOM	794	CE2	PHE	53	3.471	3.390	22.308	1.00	0.00
ATOM	795	CZ	PHE	53	3.739	4.704	22.641	1.00	0.00
ATOM	798	H	PHE	53	6.898	4.311	17.525	1.00	0.00
ATOM	799	HA	PHE	53	7.512	3.610	20.223	1.00	0.00
ATOM	800	1HB	PHE	53	5.573	1.816	19.368	1.00	0.00
ATOM	801	2HB	PHE	53	5.285	3.260	18.402	1.00	0.00



ATOM	802	HD1	PHE	53	5.996	5.413	20.241	1.00	0.00
ATOM	803	HD2	PHE	53	3.901	1.779	20.973	1.00	0.00
ATOM	804	HE1	PHE	53	4.859	6.458	22.157	1.00	0.00
ATOM	805	HE2	PHE	53	2.761	2.820	22.889	1.00	0.00
ATOM	806	HZ	PHE	53	3.240	5.160	23.483	1.00	0.00
ATOM	807	N	GLU	54	8.243	1.446	17.890	1.00	0.00
ATOM	808	CA	GLU	54	8.985	0.219	17.624	1.00	0.00
ATOM	814	C	GLU	54	10.425	0.377	18.112	1.00	0.00
ATOM	815	O	GLU	54	11.090	-0.596	18.471	1.00	0.00
ATOM	809	CB	GLU	54	8.941	-0.116	16.120	1.00	0.00
ATOM	810	CG	GLU	54	9.804	-1.307	15.716	1.00	0.00
ATOM	811	CD	GLU	54	9.068	-2.316	14.851	1.00	0.00
ATOM	812	OE1	GLU	54	8.018	-1.963	14.270	1.00	0.00
ATOM	813	OE2	GLU	54	9.539	-3.473	14.735	1.00	0.00
ATOM	816	H	GLU	54	7.916	1.981	17.131	1.00	0.00
ATOM	817	HA	GLU	54	8.514	-0.580	18.180	1.00	0.00
ATOM	818	1HB	GLU	54	9.270	0.750	15.557	1.00	0.00
ATOM	819	2HB	GLU	54	7.919	-0.334	15.845	1.00	0.00
ATOM	820	1HG	GLU	54	10.147	-1.805	16.612	1.00	0.00
ATOM	821	2HG	GLU	54	10.656	-0.942	15.163	1.00	0.00
ATOM	822	N	THR	55	10.890	1.618	18.132	1.00	0.00
ATOM	823	CA	THR	55	12.238	1.926	18.583	1.00	0.00
ATOM	827	C	THR	55	12.291	2.158	20.103	1.00	0.00
ATOM	828	O	THR	55	13.246	1.748	20.769	1.00	0.00
ATOM	824	CB	THR	55	12.786	3.167	17.849	1.00	0.00
ATOM	825	OG1	THR	55	12.547	3.046	16.437	1.00	0.00
ATOM	826	CG2	THR	55	14.279	3.337	18.096	1.00	0.00
ATOM	829	H	THR	55	10.306	2.351	17.836	1.00	0.00
ATOM	830	HA	THR	55	12.868	1.083	18.337	1.00	0.00
ATOM	831	HB	THR	55	12.271	4.045	18.218	1.00	0.00
ATOM	832	HG1	THR	55	11.604	3.178	16.256	1.00	0.00
ATOM	833	1HG2	THR	55	14.672	4.085	17.424	1.00	0.00
ATOM	834	2HG2	THR	55	14.779	2.396	17.921	1.00	0.00
ATOM	835	3HG2	THR	55	14.441	3.646	19.117	1.00	0.00
ATOM	836	N	ARG	56	11.274	2.827	20.646	1.00	0.00
ATOM	837	CA	ARG	56	11.229	3.126	22.080	1.00	0.00
ATOM	845	C	ARG	56	10.522	2.023	22.880	1.00	0.00
ATOM	846	O	ARG	56	11.102	1.443	23.798	1.00	0.00
ATOM	838	CB	ARG	56	10.536	4.473	22.316	1.00	0.00
ATOM	839	CG	ARG	56	11.507	5.618	22.575	1.00	0.00
ATOM	840	CD	ARG	56	10.827	6.978	22.467	1.00	0.00
ATOM	841	NE	ARG	56	11.157	7.847	23.591	1.00	0.00
ATOM	842	CZ	ARG	56	10.492	8.965	23.877	1.00	0.00
ATOM	843	NH1	ARG	56	9.507	9.380	23.091	1.00	0.00
ATOM	844	NH2	ARG	56	10.822	9.685	24.940	1.00	0.00
ATOM	847	H	ARG	56	10.545	3.142	20.067	1.00	0.00
ATOM	848	HA	ARG	56	12.249	3.199	22.427	1.00	0.00
ATOM	849	1HB	ARG	56	9.884	4.384	23.172	1.00	0.00
ATOM	850	2HB	ARG	56	9.944	4.719	21.448	1.00	0.00
ATOM	851	1HG	ARG	56	12.307	5.568	21.850	1.00	0.00
ATOM	852	2HG	ARG	56	11.914	5.512	23.569	1.00	0.00
ATOM	853	1HD	ARG	56	9.755	6.838	22.441	1.00	0.00
ATOM	854	2HD	ARG	56	11.145	7.456	21.553	1.00	0.00
ATOM	855	HE	ARG	56	11.910	7.577	24.167	1.00	0.00
ATOM	856	1HH1	ARG	56	9.249	8.853	22.261	1.00	0.00
ATOM	857	2HH1	ARG	56	9.018	10.227	23.312	1.00	0.00
ATOM	858	1HH2	ARG	56	11.573	9.399	25.534	1.00	0.00
ATOM	859	2HH2	ARG	56	10.305	10.530	25.153	1.00	0.00
ATOM	860	N	PHE	57	9.279	1.737	22.521	1.00	0.00
ATOM	861	CA	PHE	57	8.481	0.704	23.186	1.00	0.00
ATOM	869	C	PHE	57	8.845	-0.679	22.640	1.00	0.00
ATOM	870	O	PHE	57	8.061	-1.314	21.936	1.00	0.00
ATOM	862	CB	PHE	57	6.991	0.995	22.963	1.00	0.00
ATOM	863	CG	PHE	57	6.060	0.348	23.952	1.00	0.00
ATOM	864	CD1	PHE	57	6.488	-0.003	25.224	1.00	0.00
ATOM	865	CD2	PHE	57	4.742	0.101	23.602	1.00	0.00
ATOM	866	CE1	PHE	57	5.617	-0.590	26.124	1.00	0.00
ATOM	867	CE2	PHE	57	3.868	-0.484	24.497	1.00	0.00
ATOM	868	CZ	PHE	57	4.305	-0.830	25.759	1.00	0.00
ATOM	871	H	PHE	57	8.878	2.226	21.771	1.00	0.00
ATOM	872	HA	PHE	57	8.697	0.736	24.244	1.00	0.00
ATOM	873	1HB	PHE	57	6.714	0.653	21.976	1.00	0.00
ATOM	874	2HB	PHE	57	6.833	2.062	23.018	1.00	0.00



ATOM	875	HD1	PHE	57	4.398	0.370	22.615	1.00	0.00
ATOM	876	HD2	PHE	57	7.513	0.184	25.508	1.00	0.00
ATOM	877	HE1	PHE	57	2.844	-0.669	24.210	1.00	0.00
ATOM	878	HE2	PHE	57	5.962	-0.861	27.111	1.00	0.00
ATOM	879	HZ	PHE	57	3.619	-1.286	26.459	1.00	0.00
ATOM	880	N	ARG	58	10.055	-1.125	22.960	1.00	0.00
ATOM	881	CA	ARG	58	10.564	-2.417	22.497	1.00	0.00
ATOM	889	C	ARG	58	9.901	-3.600	23.209	1.00	0.00
ATOM	890	O	ARG	58	10.226	-4.756	22.935	1.00	0.00
ATOM	882	CB	ARG	58	12.077	-2.482	22.699	1.00	0.00
ATOM	883	CG	ARG	58	12.850	-1.496	21.844	1.00	0.00
ATOM	884	CD	ARG	58	14.342	-1.772	21.898	1.00	0.00
ATOM	885	NE	ARG	58	15.131	-0.547	22.032	1.00	0.00
ATOM	886	CZ	ARG	58	16.155	-0.417	22.876	1.00	0.00
ATOM	887	NH1	ARG	58	16.445	-1.386	23.736	1.00	0.00
ATOM	888	NH2	ARG	58	16.873	0.699	22.888	1.00	0.00
ATOM	891	H	ARG	58	10.635	-0.557	23.514	1.00	0.00
ATOM	892	HA	ARG	58	10.355	-2.491	21.441	1.00	0.00
ATOM	893	1HB	ARG	58	12.418	-3.479	22.459	1.00	0.00
ATOM	894	2HB	ARG	58	12.298	-2.277	23.736	1.00	0.00
ATOM	895	1HG	ARG	58	12.664	-0.495	22.205	1.00	0.00
ATOM	896	2HG	ARG	58	12.515	-1.579	20.821	1.00	0.00
ATOM	897	1HD	ARG	58	14.632	-2.277	20.988	1.00	0.00
ATOM	898	2HD	ARG	58	14.545	-2.412	22.743	1.00	0.00
ATOM	899	HE	ARG	58	14.896	0.207	21.443	1.00	0.00
ATOM	900	1HH1	ARG	58	15.889	-2.228	23.763	1.00	0.00
ATOM	901	2HH1	ARG	58	17.226	-1.287	24.361	1.00	0.00
ATOM	902	1HH2	ARG	58	16.653	1.454	22.263	1.00	0.00
ATOM	903	2HH2	ARG	58	17.650	0.787	23.524	1.00	0.00
ATOM	904	N	ARG	59	8.975	-3.323	24.113	1.00	0.00
ATOM	905	CA	ARG	59	8.285	-4.385	24.831	1.00	0.00
ATOM	913	C	ARG	59	6.948	-4.687	24.166	1.00	0.00
ATOM	914	O	ARG	59	5.904	-4.685	24.809	1.00	0.00
ATOM	906	CB	ARG	59	8.086	-4.007	26.299	1.00	0.00
ATOM	907	CG	ARG	59	8.737	-4.987	27.262	1.00	0.00
ATOM	908	CD	ARG	59	8.244	-4.785	28.683	1.00	0.00
ATOM	909	NE	ARG	59	9.293	-4.264	29.557	1.00	0.00
ATOM	910	CZ	ARG	59	9.157	-3.185	30.326	1.00	0.00
ATOM	911	NH1	ARG	59	8.019	-2.501	30.324	1.00	0.00
ATOM	912	NH2	ARG	59	10.163	-2.795	31.094	1.00	0.00
ATOM	915	H	ARG	59	8.744	-2.389	24.293	1.00	0.00
ATOM	916	HA	ARG	59	8.903	-5.269	24.779	1.00	0.00
ATOM	917	1HB	ARG	59	7.028	-3.973	26.513	1.00	0.00
ATOM	918	2HB	ARG	59	8.512	-3.028	26.469	1.00	0.00
ATOM	919	1HG	ARG	59	9.807	-4.843	27.238	1.00	0.00
ATOM	920	2HG	ARG	59	8.500	-5.993	26.950	1.00	0.00
ATOM	921	1HD	ARG	59	7.904	-5.735	29.070	1.00	0.00
ATOM	922	2HD	ARG	59	7.420	-4.087	28.669	1.00	0.00
ATOM	923	HE	ARG	59	10.151	-4.754	29.578	1.00	0.00
ATOM	924	1HH1	ARG	59	7.258	-2.795	29.746	1.00	0.00
ATOM	925	2HH1	ARG	59	7.915	-1.678	30.904	1.00	0.00
ATOM	926	1HH2	ARG	59	11.027	-3.317	31.093	1.00	0.00
ATOM	927	2HH2	ARG	59	10.072	-1.986	31.685	1.00	0.00
ATOM	928	N	THR	60	6.996	-4.918	22.862	1.00	0.00
ATOM	929	CA	THR	60	5.797	-5.200	22.087	1.00	0.00
ATOM	933	C	THR	60	5.874	-6.572	21.420	1.00	0.00
ATOM	934	O	THR	60	4.959	-6.975	20.705	1.00	0.00
ATOM	930	CB	THR	60	5.605	-4.128	21.004	1.00	0.00
ATOM	931	OG1	THR	60	6.877	-3.547	20.684	1.00	0.00
ATOM	932	CG2	THR	60	4.645	-3.044	21.473	1.00	0.00
ATOM	935	H	THR	60	7.858	-4.879	22.400	1.00	0.00
ATOM	936	HA	THR	60	4.946	-5.172	22.751	1.00	0.00
ATOM	937	HB	THR	60	5.196	-4.597	20.120	1.00	0.00
ATOM	938	HG1	THR	60	6.916	-2.645	21.024	1.00	0.00
ATOM	939	1HG2	THR	60	4.676	-2.214	20.785	1.00	0.00
ATOM	940	2HG2	THR	60	4.936	-2.708	22.458	1.00	0.00
ATOM	941	3HG2	THR	60	3.641	-3.443	21.511	1.00	0.00
ATOM	942	N	PHE	61	6.978	-7.279	21.639	1.00	0.00
ATOM	943	CA	PHE	61	7.170	-8.596	21.034	1.00	0.00
ATOM	951	C	PHE	61	7.114	-9.708	22.079	1.00	0.00
ATOM	952	O	PHE	61	6.793	-10.849	21.764	1.00	0.00
ATOM	944	CB	PHE	61	8.511	-8.646	20.298	1.00	0.00
ATOM	945	CG	PHE	61	8.467	-8.043	18.921	1.00	0.00



ATOM	946	CD1	PHE	61	8.634	-6.679	18.741	1.00	0.00
ATOM	947	CD2	PHE	61	8.257	-8.841	17.808	1.00	0.00
ATOM	948	CE1	PHE	61	8.595	-6.121	17.477	1.00	0.00
ATOM	949	CE2	PHE	61	8.217	-8.289	16.542	1.00	0.00
ATOM	950	CZ	PHE	61	8.384	-6.927	16.376	1.00	0.00
ATOM	953	H	PHE	61	7.682	-6.902	22.204	1.00	0.00
ATOM	954	HA	PHE	61	6.374	-8.751	20.323	1.00	0.00
ATOM	955	1HB	PHE	61	8.822	-9.677	20.202	1.00	0.00
ATOM	956	2HB	PHE	61	9.247	-8.106	20.872	1.00	0.00
ATOM	957	HD1	PHE	61	8.799	-6.048	19.602	1.00	0.00
ATOM	958	HD2	PHE	61	8.126	-9.905	17.935	1.00	0.00
ATOM	959	HE1	PHE	61	8.726	-5.057	17.351	1.00	0.00
ATOM	960	HE2	PHE	61	8.053	-8.922	15.682	1.00	0.00
ATOM	961	HZ	PHE	61	8.352	-6.495	15.387	1.00	0.00
ATOM	962	N	SER	62	7.437	-9.372	23.317	1.00	0.00
ATOM	963	CA	SER	62	7.438	-10.343	24.402	1.00	0.00
ATOM	966	C	SER	62	6.040	-10.895	24.668	1.00	0.00
ATOM	967	O	SER	62	5.871	-12.092	24.910	1.00	0.00
ATOM	964	CB	SER	62	7.999	-9.683	25.660	1.00	0.00
ATOM	965	OG	SER	62	8.606	-8.436	25.341	1.00	0.00
ATOM	968	H	SER	62	7.695	-8.447	23.515	1.00	0.00
ATOM	969	HA	SER	62	8.082	-11.161	24.118	1.00	0.00
ATOM	970	1HB	SER	62	8.741	-10.330	26.104	1.00	0.00
ATOM	971	2HB	SER	62	7.198	-9.513	26.364	1.00	0.00
ATOM	972	HG	SER	62	9.389	-8.315	25.888	1.00	0.00
ATOM	973	N	ASP	63	5.047	-10.019	24.628	1.00	0.00
ATOM	974	CA	ASP	63	3.661	-10.409	24.884	1.00	0.00
ATOM	979	C	ASP	63	3.108	-11.286	23.772	1.00	0.00
ATOM	980	O	ASP	63	2.130	-12.009	23.969	1.00	0.00
ATOM	975	CB	ASP	63	2.785	-9.169	25.073	1.00	0.00
ATOM	976	CG	ASP	63	2.889	-8.588	26.475	1.00	0.00
ATOM	977	OD1	ASP	63	3.992	-8.650	27.060	1.00	0.00
ATOM	978	OD2	ASP	63	1.875	-8.066	26.986	1.00	0.00
ATOM	981	H	ASP	63	5.248	-9.079	24.442	1.00	0.00
ATOM	982	HA	ASP	63	3.653	-10.987	25.791	1.00	0.00
ATOM	983	1HB	ASP	63	1.755	-9.435	24.887	1.00	0.00
ATOM	984	2HB	ASP	63	3.089	-8.412	24.366	1.00	0.00
ATOM	985	N	LEU	64	3.754	-11.246	22.619	1.00	0.00
ATOM	986	CA	LEU	64	3.344	-12.067	21.487	1.00	0.00
ATOM	991	C	LEU	64	3.585	-13.525	21.833	1.00	0.00
ATOM	992	O	LEU	64	2.731	-14.392	21.629	1.00	0.00
ATOM	987	CB	LEU	64	4.159	-11.709	20.240	1.00	0.00
ATOM	988	CG	LEU	64	3.656	-10.528	19.401	1.00	0.00
ATOM	989	CD1	LEU	64	2.915	-9.503	20.250	1.00	0.00
ATOM	990	CD2	LEU	64	4.828	-9.875	18.690	1.00	0.00
ATOM	993	H	LEU	64	4.539	-10.668	22.534	1.00	0.00
ATOM	994	HA	LEU	64	2.293	-11.904	21.299	1.00	0.00
ATOM	995	1HB	LEU	64	4.191	-12.580	19.603	1.00	0.00
ATOM	996	2HB	LEU	64	5.167	-11.484	20.556	1.00	0.00
ATOM	997	HG	LEU	64	2.973	-10.894	18.648	1.00	0.00
ATOM	998	1HD1	LEU	64	2.153	-9.023	19.653	1.00	0.00
ATOM	999	2HD1	LEU	64	3.612	-8.760	20.608	1.00	0.00
ATOM	1000	3HD1	LEU	64	2.452	-9.998	21.091	1.00	0.00
ATOM	1001	1HD2	LEU	64	4.469	-9.059	18.079	1.00	0.00
ATOM	1002	2HD2	LEU	64	5.321	-10.604	18.063	1.00	0.00
ATOM	1003	3HD2	LEU	64	5.526	-9.496	19.421	1.00	0.00
ATOM	1004	N	ALA	65	4.763	-13.765	22.391	1.00	0.00
ATOM	1005	CA	ALA	65	5.167	-15.095	22.801	1.00	0.00
ATOM	1007	C	ALA	65	4.460	-15.484	24.081	1.00	0.00
ATOM	1008	O	ALA	65	3.913	-16.576	24.184	1.00	0.00
ATOM	1006	CB	ALA	65	6.673	-15.152	22.986	1.00	0.00
ATOM	1009	H	ALA	65	5.374	-13.012	22.546	1.00	0.00
ATOM	1010	HA	ALA	65	4.892	-15.787	22.018	1.00	0.00
ATOM	1011	1HB	ALA	65	7.158	-14.689	22.140	1.00	0.00
ATOM	1012	2HB	ALA	65	6.987	-16.182	23.062	1.00	0.00
ATOM	1013	3HB	ALA	65	6.944	-14.625	23.889	1.00	0.00
ATOM	1014	N	ALA	66	4.466	-14.571	25.050	1.00	0.00
ATOM	1015	CA	ALA	66	3.817	-14.796	26.338	1.00	0.00
ATOM	1017	C	ALA	66	2.401	-15.343	26.155	1.00	0.00
ATOM	1018	O	ALA	66	1.975	-16.255	26.869	1.00	0.00
ATOM	1016	CB	ALA	66	3.787	-13.503	27.131	1.00	0.00
ATOM	1019	H	ALA	66	4.922	-13.710	24.890	1.00	0.00
ATOM	1020	HA	ALA	66	4.402	-15.514	26.891	1.00	0.00



ATOM	1021	1HB	ALA	66	4.097	-12.685	26.497	1.00	0.00
ATOM	1022	2HB	ALA	66	4.460	-13.581	27.973	1.00	0.00
ATOM	1023	3HB	ALA	66	2.784	-13.322	27.488	1.00	0.00
ATOM	1024	N	GLN	67	1.686	-14.785	25.185	1.00	0.00
ATOM	1025	CA	GLN	67	0.320	-15.200	24.888	1.00	0.00
ATOM	1031	C	GLN	67	0.243	-16.574	24.225	1.00	0.00
ATOM	1032	O	GLN	67	-0.337	-17.507	24.778	1.00	0.00
ATOM	1026	CB	GLN	67	-0.347	-14.193	23.959	1.00	0.00
ATOM	1027	CG	GLN	67	-0.990	-13.024	24.669	1.00	0.00
ATOM	1028	CD	GLN	67	-1.491	-11.986	23.692	1.00	0.00
ATOM	1029	OE1	GLN	67	-2.675	-11.950	23.361	1.00	0.00
ATOM	1030	NE2	GLN	67	-0.591	-11.142	23.217	1.00	0.00
ATOM	1033	H	GLN	67	2.092	-14.064	24.652	1.00	0.00
ATOM	1034	HA	GLN	67	-0.228	-15.228	25.816	1.00	0.00
ATOM	1035	1HB	GLN	67	-1.111	-14.701	23.388	1.00	0.00
ATOM	1036	2HB	GLN	67	0.395	-13.802	23.278	1.00	0.00
ATOM	1037	1HG	GLN	67	-0.261	-12.565	25.320	1.00	0.00
ATOM	1038	2HG	GLN	67	-1.824	-13.385	25.252	1.00	0.00
ATOM	1039	1HE2	GLN	67	0.340	-11.236	23.521	1.00	0.00
ATOM	1040	2HE2	GLN	67	-0.888	-10.456	22.585	1.00	0.00
ATOM	1041	N	LEU	68	0.772	-16.674	23.012	1.00	0.00
ATOM	1042	CA	LEU	68	0.695	-17.912	22.235	1.00	0.00
ATOM	1047	C	LEU	68	1.702	-18.983	22.658	1.00	0.00
ATOM	1048	O	LEU	68	1.908	-19.952	21.933	1.00	0.00
ATOM	1043	CB	LEU	68	0.866	-17.597	20.745	1.00	0.00
ATOM	1044	CG	LEU	68	-0.374	-17.021	20.045	1.00	0.00
ATOM	1045	CD1	LEU	68	-1.655	-17.514	20.706	1.00	0.00
ATOM	1046	CD2	LEU	68	-0.328	-15.501	20.042	1.00	0.00
ATOM	1049	H	LEU	68	1.185	-15.879	22.601	1.00	0.00
ATOM	1050	HA	LEU	68	-0.296	-18.314	22.380	1.00	0.00
ATOM	1051	1HB	LEU	68	1.147	-18.507	20.239	1.00	0.00
ATOM	1052	2HB	LEU	68	1.674	-16.885	20.642	1.00	0.00
ATOM	1053	HG	LEU	68	-0.382	-17.356	19.018	1.00	0.00
ATOM	1054	1HD1	LEU	68	-2.450	-17.543	19.974	1.00	0.00
ATOM	1055	2HD1	LEU	68	-1.929	-16.842	21.507	1.00	0.00
ATOM	1056	3HD1	LEU	68	-1.498	-18.505	21.105	1.00	0.00
ATOM	1057	1HD2	LEU	68	-1.199	-15.116	19.532	1.00	0.00
ATOM	1058	2HD2	LEU	68	0.564	-15.169	19.531	1.00	0.00
ATOM	1059	3HD2	LEU	68	-0.316	-15.138	21.059	1.00	0.00
ATOM	1060	N	HIS	69	2.317	-18.832	23.819	1.00	0.00
ATOM	1061	CA	HIS	69	3.280	-19.829	24.280	1.00	0.00
ATOM	1068	C	HIS	69	2.558	-21.041	24.864	1.00	0.00
ATOM	1069	O	HIS	69	3.128	-22.123	24.974	1.00	0.00
ATOM	1062	CB	HIS	69	4.260	-19.218	25.304	1.00	0.00
ATOM	1063	CG	HIS	69	3.941	-19.493	26.750	1.00	0.00
ATOM	1064	ND1	HIS	69	3.089	-18.711	27.499	1.00	0.00
ATOM	1065	CD2	HIS	69	4.371	-20.473	27.579	1.00	0.00
ATOM	1066	CE1	HIS	69	3.012	-19.199	28.723	1.00	0.00
ATOM	1067	NE2	HIS	69	3.781	-20.270	28.800	1.00	0.00
ATOM	1070	H	HIS	69	2.123	-18.046	24.372	1.00	0.00
ATOM	1071	HA	HIS	69	3.843	-20.155	23.417	1.00	0.00
ATOM	1072	1HB	HIS	69	4.274	-18.146	25.169	1.00	0.00
ATOM	1073	2HB	HIS	69	5.248	-19.605	25.111	1.00	0.00
ATOM	1074	HD1	HIS	69	2.623	-17.900	27.187	1.00	0.00
ATOM	1075	HD2	HIS	69	5.054	-21.273	27.325	1.00	0.00
ATOM	1076	HE1	HIS	69	2.416	-18.793	29.527	1.00	0.00
ATOM	1077	HE2	HIS	69	4.114	-20.651	29.647	1.00	0.00
ATOM	1078	N	VAL	70	1.304	-20.847	25.250	1.00	0.00
ATOM	1079	CA	VAL	70	0.517	-21.927	25.829	1.00	0.00
ATOM	1083	C	VAL	70	-0.278	-22.680	24.769	1.00	0.00
ATOM	1084	O	VAL	70	0.037	-23.823	24.439	1.00	0.00
ATOM	1080	CB	VAL	70	-0.446	-21.425	26.929	1.00	0.00
ATOM	1081	CG1	VAL	70	0.055	-21.849	28.298	1.00	0.00
ATOM	1082	CG2	VAL	70	-0.620	-19.913	26.870	1.00	0.00
ATOM	1085	H	VAL	70	0.901	-19.961	25.143	1.00	0.00
ATOM	1086	HA	VAL	70	1.209	-22.620	26.288	1.00	0.00
ATOM	1087	HB	VAL	70	-1.411	-21.884	26.767	1.00	0.00
ATOM	1088	1HG1	VAL	70	0.768	-21.125	28.662	1.00	0.00
ATOM	1089	2HG1	VAL	70	0.531	-22.817	28.224	1.00	0.00
ATOM	1090	3HG1	VAL	70	-0.778	-21.910	28.984	1.00	0.00
ATOM	1091	1HG2	VAL	70	-1.658	-19.663	27.035	1.00	0.00
ATOM	1092	2HG2	VAL	70	-0.313	-19.553	25.901	1.00	0.00
ATOM	1093	3HG2	VAL	70	-0.014	-19.452	27.636	1.00	0.00



ATOM	1094	N	THR	71	-1.326	-22.044	24.255	1.00	0.00
ATOM	1095	CA	THR	71	-2.184	-22.659	23.249	1.00	0.00
ATOM	1099	C	THR	71	-2.920	-21.589	22.441	1.00	0.00
ATOM	1100	O	THR	71	-3.434	-20.621	23.007	1.00	0.00
ATOM	1096	CB	THR	71	-3.229	-23.597	23.902	1.00	0.00
ATOM	1097	OG1	THR	71	-2.824	-23.944	25.236	1.00	0.00
ATOM	1098	CG2	THR	71	-3.409	-24.866	23.083	1.00	0.00
ATOM	1101	H	THR	71	-1.538	-21.140	24.568	1.00	0.00
ATOM	1102	HA	THR	71	-1.564	-23.242	22.585	1.00	0.00
ATOM	1103	HB	THR	71	-4.177	-23.079	23.947	1.00	0.00
ATOM	1104	HG1	THR	71	-1.933	-24.315	25.207	1.00	0.00
ATOM	1105	1HG2	THR	71	-4.457	-25.011	22.870	1.00	0.00
ATOM	1106	2HG2	THR	71	-3.035	-25.712	23.642	1.00	0.00
ATOM	1107	3HG2	THR	71	-2.863	-24.777	22.155	1.00	0.00
ATOM	1108	N	PRO	72	-2.971	-21.746	21.107	1.00	0.00
ATOM	1109	CA	PRO	72	-3.643	-20.793	20.211	1.00	0.00
ATOM	1113	C	PRO	72	-5.157	-20.764	20.422	1.00	0.00
ATOM	1114	O	PRO	72	-5.714	-21.611	21.124	1.00	0.00
ATOM	1110	CB	PRO	72	-3.320	-21.319	18.807	1.00	0.00
ATOM	1111	CG	PRO	72	-2.194	-22.280	18.991	1.00	0.00
ATOM	1112	CD	PRO	72	-2.367	-22.858	20.359	1.00	0.00
ATOM	1115	HA	PRO	72	-3.246	-19.795	20.326	1.00	0.00
ATOM	1116	1HB	PRO	72	-3.032	-20.495	18.171	1.00	0.00
ATOM	1117	2HB	PRO	72	-4.192	-21.808	18.396	1.00	0.00
ATOM	1118	1HG	PRO	72	-1.251	-21.757	18.921	1.00	0.00
ATOM	1119	2HG	PRO	72	-2.248	-23.058	18.244	1.00	0.00
ATOM	1120	1HD	PRO	72	-1.411	-23.133	20.780	1.00	0.00
ATOM	1121	2HD	PRO	72	-3.029	-23.710	20.328	1.00	0.00
ATOM	1122	N	GLY	73	-5.824	-19.793	19.804	1.00	0.00
ATOM	1123	CA	GLY	73	-7.267	-19.686	19.936	1.00	0.00
ATOM	1124	C	GLY	73	-7.684	-18.776	21.076	1.00	0.00
ATOM	1125	O	GLY	73	-8.383	-17.783	20.866	1.00	0.00
ATOM	1126	H	GLY	73	-5.333	-19.146	19.247	1.00	0.00
ATOM	1127	1HA	GLY	73	-7.675	-20.669	20.109	1.00	0.00
ATOM	1128	2HA	GLY	73	-7.673	-19.297	19.014	1.00	0.00
ATOM	1129	N	SER	74	-7.252	-19.104	22.288	1.00	0.00
ATOM	1130	CA	SER	74	-7.582	-18.305	23.465	1.00	0.00
ATOM	1133	C	SER	74	-6.720	-17.045	23.526	1.00	0.00
ATOM	1134	O	SER	74	-6.102	-16.738	24.547	1.00	0.00
ATOM	1131	CB	SER	74	-7.398	-19.146	24.731	1.00	0.00
ATOM	1132	OG	SER	74	-7.286	-20.527	24.415	1.00	0.00
ATOM	1135	H	SER	74	-6.695	-19.904	22.399	1.00	0.00
ATOM	1136	HA	SER	74	-8.619	-18.006	23.387	1.00	0.00
ATOM	1137	1HB	SER	74	-8.249	-19.005	25.380	1.00	0.00
ATOM	1138	2HB	SER	74	-6.499	-18.833	25.242	1.00	0.00
ATOM	1139	HG	SER	74	-7.319	-21.047	25.235	1.00	0.00
ATOM	1140	N	ALA	75	-6.686	-16.323	22.417	1.00	0.00
ATOM	1141	CA	ALA	75	-5.913	-15.101	22.317	1.00	0.00
ATOM	1143	C	ALA	75	-6.829	-13.890	22.228	1.00	0.00
ATOM	1144	O	ALA	75	-6.437	-12.780	22.581	1.00	0.00
ATOM	1142	CB	ALA	75	-4.989	-15.161	21.111	1.00	0.00
ATOM	1145	H	ALA	75	-7.202	-16.629	21.638	1.00	0.00
ATOM	1146	HA	ALA	75	-5.306	-15.015	23.199	1.00	0.00
ATOM	1147	1HB	ALA	75	-4.073	-14.634	21.331	1.00	0.00
ATOM	1148	2HB	ALA	75	-5.475	-14.701	20.262	1.00	0.00
ATOM	1149	3HB	ALA	75	-4.765	-16.192	20.881	1.00	0.00
ATOM	1150	N	GLN	76	-8.050	-14.108	21.745	1.00	0.00
ATOM	1151	CA	GLN	76	-9.009	-13.020	21.593	1.00	0.00
ATOM	1157	C	GLN	76	-9.372	-12.398	22.926	1.00	0.00
ATOM	1158	O	GLN	76	-9.453	-11.179	23.032	1.00	0.00
ATOM	1152	CB	GLN	76	-10.270	-13.478	20.852	1.00	0.00
ATOM	1153	CG	GLN	76	-10.809	-14.825	21.282	1.00	0.00
ATOM	1154	CD	GLN	76	-12.316	-14.900	21.171	1.00	0.00
ATOM	1155	OE1	GLN	76	-12.984	-15.490	22.020	1.00	0.00
ATOM	1156	NE2	GLN	76	-12.861	-14.300	20.122	1.00	0.00
ATOM	1159	H	GLN	76	-8.304	-15.014	21.471	1.00	0.00
ATOM	1160	HA	GLN	76	-8.528	-12.260	20.997	1.00	0.00
ATOM	1161	1HB	GLN	76	-10.048	-13.527	19.795	1.00	0.00
ATOM	1162	2HB	GLN	76	-11.046	-12.744	21.007	1.00	0.00
ATOM	1163	1HG	GLN	76	-10.528	-14.996	22.303	1.00	0.00
ATOM	1164	2HG	GLN	76	-10.376	-15.592	20.656	1.00	0.00
ATOM	1165	1HE2	GLN	76	-12.267	-13.849	19.488	1.00	0.00
ATOM	1166	2HE2	GLN	76	-13.837	-14.324	20.025	1.00	0.00



ATOM	1167	N	GLN	77	-9.576	-13.225	23.941	1.00	0.00
ATOM	1168	CA	GLN	77	-9.923	-12.713	25.259	1.00	0.00
ATOM	1174	C	GLN	77	-8.793	-11.857	25.809	1.00	0.00
ATOM	1175	O	GLN	77	-9.028	-10.767	26.330	1.00	0.00
ATOM	1169	CB	GLN	77	-10.237	-13.857	26.221	1.00	0.00
ATOM	1170	CG	GLN	77	-11.311	-14.799	25.707	1.00	0.00
ATOM	1171	CD	GLN	77	-10.740	-16.094	25.170	1.00	0.00
ATOM	1172	OE1	GLN	77	-9.844	-16.091	24.325	1.00	0.00
ATOM	1173	NE2	GLN	77	-11.252	-17.208	25.663	1.00	0.00
ATOM	1176	H	GLN	77	-9.490	-14.201	23.803	1.00	0.00
ATOM	1177	HA	GLN	77	-10.799	-12.092	25.149	1.00	0.00
ATOM	1178	1HB	GLN	77	-10.572	-13.442	27.160	1.00	0.00
ATOM	1179	2HB	GLN	77	-9.336	-14.430	26.389	1.00	0.00
ATOM	1180	1HG	GLN	77	-11.855	-14.305	24.913	1.00	0.00
ATOM	1181	2HG	GLN	77	-11.989	-15.028	26.516	1.00	0.00
ATOM	1182	1HE2	GLN	77	-11.965	-17.130	26.342	1.00	0.00
ATOM	1183	2HE2	GLN	77	-10.911	-18.065	25.333	1.00	0.00
ATOM	1184	N	ARG	78	-7.569	-12.347	25.670	1.00	0.00
ATOM	1185	CA	ARG	78	-6.396	-11.625	26.136	1.00	0.00
ATOM	1193	C	ARG	78	-6.269	-10.293	25.401	1.00	0.00
ATOM	1194	O	ARG	78	-5.990	-9.260	26.012	1.00	0.00
ATOM	1186	CB	ARG	78	-5.139	-12.479	25.934	1.00	0.00
ATOM	1187	CG	ARG	78	-5.300	-13.912	26.425	1.00	0.00
ATOM	1188	CD	ARG	78	-4.003	-14.700	26.320	1.00	0.00
ATOM	1189	NE	ARG	78	-4.157	-16.076	26.802	1.00	0.00
ATOM	1190	CZ	ARG	78	-4.065	-16.437	28.085	1.00	0.00
ATOM	1191	NH1	ARG	78	-3.821	-15.521	29.016	1.00	0.00
ATOM	1192	NH2	ARG	78	-4.218	-17.710	28.435	1.00	0.00
ATOM	1195	H	ARG	78	-7.452	-13.210	25.230	1.00	0.00
ATOM	1196	HA	ARG	78	-6.524	-11.429	27.191	1.00	0.00
ATOM	1197	1HB	ARG	78	-4.318	-12.027	26.472	1.00	0.00
ATOM	1198	2HB	ARG	78	-4.899	-12.505	24.881	1.00	0.00
ATOM	1199	1HG	ARG	78	-6.056	-14.401	25.829	1.00	0.00
ATOM	1200	2HG	ARG	78	-5.612	-13.893	27.458	1.00	0.00
ATOM	1201	1HD	ARG	78	-3.247	-14.205	26.910	1.00	0.00
ATOM	1202	2HD	ARG	78	-3.693	-14.724	25.285	1.00	0.00
ATOM	1203	HE	ARG	78	-4.344	-16.768	26.126	1.00	0.00
ATOM	1204	1HH1	ARG	78	-3.701	-14.562	28.760	1.00	0.00
ATOM	1205	2HH1	ARG	78	-3.779	-15.783	29.989	1.00	0.00
ATOM	1206	1HH2	ARG	78	-4.408	-18.413	27.732	1.00	0.00
ATOM	1207	2HH2	ARG	78	-4.139	-17.985	29.400	1.00	0.00
ATOM	1208	N	PHE	79	-6.501	-10.324	24.092	1.00	0.00
ATOM	1209	CA	PHE	79	-6.435	-9.123	23.270	1.00	0.00
ATOM	1217	C	PHE	79	-7.487	-8.113	23.716	1.00	0.00
ATOM	1218	O	PHE	79	-7.179	-6.945	23.949	1.00	0.00
ATOM	1210	CB	PHE	79	-6.632	-9.468	21.793	1.00	0.00
ATOM	1211	CG	PHE	79	-6.020	-8.465	20.854	1.00	0.00
ATOM	1212	CD1	PHE	79	-4.643	-8.345	20.749	1.00	0.00
ATOM	1213	CD2	PHE	79	-6.823	-7.642	20.079	1.00	0.00
ATOM	1214	CE1	PHE	79	-4.080	-7.423	19.888	1.00	0.00
ATOM	1215	CE2	PHE	79	-6.263	-6.718	19.216	1.00	0.00
ATOM	1216	CZ	PHE	79	-4.890	-6.608	19.121	1.00	0.00
ATOM	1219	H	PHE	79	-6.734	-11.179	23.667	1.00	0.00
ATOM	1220	HA	PHE	79	-5.454	-8.687	23.400	1.00	0.00
ATOM	1221	1HB	PHE	79	-7.690	-9.521	21.582	1.00	0.00
ATOM	1222	2HB	PHE	79	-6.182	-10.430	21.591	1.00	0.00
ATOM	1223	HD1	PHE	79	-7.897	-7.727	20.153	1.00	0.00
ATOM	1224	HD2	PHE	79	-4.009	-8.981	21.347	1.00	0.00
ATOM	1225	HE1	PHE	79	-6.900	-6.084	18.618	1.00	0.00
ATOM	1226	HE2	PHE	79	-3.005	-7.339	19.814	1.00	0.00
ATOM	1227	HZ	PHE	79	-4.451	-5.887	18.448	1.00	0.00
ATOM	1228	N	THR	80	-8.735	-8.564	23.832	1.00	0.00
ATOM	1229	CA	THR	80	-9.823	-7.680	24.249	1.00	0.00
ATOM	1233	C	THR	80	-9.560	-7.069	25.630	1.00	0.00
ATOM	1234	O	THR	80	-9.960	-5.936	25.893	1.00	0.00
ATOM	1230	CB	THR	80	-11.187	-8.400	24.263	1.00	0.00
ATOM	1231	OG1	THR	80	-11.040	-9.753	24.715	1.00	0.00
ATOM	1232	CG2	THR	80	-11.811	-8.392	22.874	1.00	0.00
ATOM	1235	H	THR	80	-8.932	-9.511	23.618	1.00	0.00
ATOM	1236	HA	THR	80	-9.880	-6.876	23.528	1.00	0.00
ATOM	1237	HB	THR	80	-11.847	-7.876	24.937	1.00	0.00
ATOM	1238	HG1	THR	80	-10.381	-9.788	25.418	1.00	0.00
ATOM	1239	LHG2	THR	80	-11.182	-7.829	22.201	1.00	0.00



ATOM	1240	2HG2	THR	80	-12.788	-7.936	22.921	1.00	0.00
ATOM	1241	3HG2	THR	80	-11.904	-9.406	22.516	1.00	0.00
ATOM	1242	N	GLN	81	-8.875	-7.815	26.500	1.00	0.00
ATOM	1243	CA	GLN	81	-8.557	-7.329	27.844	1.00	0.00
ATOM	1249	C	GLN	81	-7.699	-6.080	27.774	1.00	0.00
ATOM	1250	O	GLN	81	-8.089	-5.018	28.255	1.00	0.00
ATOM	1244	CB	GLN	81	-7.822	-8.398	28.650	1.00	0.00
ATOM	1245	CG	GLN	81	-8.707	-9.552	29.061	1.00	0.00
ATOM	1246	CD	GLN	81	-9.277	-9.389	30.455	1.00	0.00
ATOM	1247	OE1	GLN	81	-8.714	-9.892	31.429	1.00	0.00
ATOM	1248	NE2	GLN	81	-10.395	-8.689	30.566	1.00	0.00
ATOM	1251	H	GLN	81	-8.569	-8.707	26.230	1.00	0.00
ATOM	1252	HA	GLN	81	-9.485	-7.088	28.339	1.00	0.00
ATOM	1253	1HB	GLN	81	-7.418	-7.945	29.543	1.00	0.00
ATOM	1254	2HB	GLN	81	-7.010	-8.788	28.054	1.00	0.00
ATOM	1255	1HG	GLN	81	-8.128	-10.463	29.025	1.00	0.00
ATOM	1256	2HG	GLN	81	-9.519	-9.616	28.357	1.00	0.00
ATOM	1257	1HE2	GLN	81	-10.797	-8.317	29.747	1.00	0.00
ATOM	1258	2HE2	GLN	81	-10.780	-8.567	31.462	1.00	0.00
ATOM	1259	N	VAL	82	-6.528	-6.223	27.170	1.00	0.00
ATOM	1260	CA	VAL	82	-5.596	-5.107	27.036	1.00	0.00
ATOM	1264	C	VAL	82	-6.217	-3.961	26.244	1.00	0.00
ATOM	1265	O	VAL	82	-5.939	-2.796	26.510	1.00	0.00
ATOM	1261	CB	VAL	82	-4.265	-5.541	26.386	1.00	0.00
ATOM	1262	CG1	VAL	82	-3.661	-6.695	27.160	1.00	0.00
ATOM	1263	CG2	VAL	82	-4.444	-5.919	24.924	1.00	0.00
ATOM	1266	H	VAL	82	-6.281	-7.105	26.811	1.00	0.00
ATOM	1267	HA	VAL	82	-5.376	-4.747	28.036	1.00	0.00
ATOM	1268	HB	VAL	82	-3.580	-4.708	26.439	1.00	0.00
ATOM	1269	1HG1	VAL	82	-4.448	-7.252	27.648	1.00	0.00
ATOM	1270	2HG1	VAL	82	-2.978	-6.311	27.905	1.00	0.00
ATOM	1271	3HG1	VAL	82	-3.127	-7.343	26.482	1.00	0.00
ATOM	1272	1HG2	VAL	82	-4.989	-6.848	24.857	1.00	0.00
ATOM	1273	2HG2	VAL	82	-3.476	-6.035	24.461	1.00	0.00
ATOM	1274	3HG2	VAL	82	-4.996	-5.141	24.417	1.00	0.00
ATOM	1275	N	SER	83	-7.079	-4.292	25.289	1.00	0.00
ATOM	1276	CA	SER	83	-7.746	-3.277	24.490	1.00	0.00
ATOM	1279	C	SER	83	-8.675	-2.451	25.372	1.00	0.00
ATOM	1280	O	SER	83	-8.719	-1.226	25.269	1.00	0.00
ATOM	1277	CB	SER	83	-8.530	-3.923	23.347	1.00	0.00
ATOM	1278	OG	SER	83	-7.684	-4.724	22.539	1.00	0.00
ATOM	1281	H	SER	83	-7.281	-5.239	25.131	1.00	0.00
ATOM	1282	HA	SER	83	-6.987	-2.627	24.078	1.00	0.00
ATOM	1283	1HB	SER	83	-8.971	-3.151	22.733	1.00	0.00
ATOM	1284	2HB	SER	83	-9.311	-4.546	23.757	1.00	0.00
ATOM	1285	HG	SER	83	-7.370	-5.479	23.052	1.00	0.00
ATOM	1286	N	ASP	84	-9.396	-3.132	26.258	1.00	0.00
ATOM	1287	CA	ASP	84	-10.308	-2.466	27.180	1.00	0.00
ATOM	1292	C	ASP	84	-9.517	-1.623	28.171	1.00	0.00
ATOM	1293	O	ASP	84	-9.899	-0.501	28.494	1.00	0.00
ATOM	1288	CB	ASP	84	-11.166	-3.495	27.923	1.00	0.00
ATOM	1289	CG	ASP	84	-12.654	-3.215	27.808	1.00	0.00
ATOM	1290	OD1	ASP	84	-13.102	-2.760	26.735	1.00	0.00
ATOM	1291	OD2	ASP	84	-13.385	-3.467	28.791	1.00	0.00
ATOM	1294	H	ASP	84	-9.301	-4.110	26.303	1.00	0.00
ATOM	1295	HA	ASP	84	-10.951	-1.818	26.602	1.00	0.00
ATOM	1296	1HB	ASP	84	-10.896	-3.489	28.970	1.00	0.00
ATOM	1297	2HB	ASP	84	-10.973	-4.476	27.513	1.00	0.00
ATOM	1298	N	GLU	85	-8.395	-2.166	28.634	1.00	0.00
ATOM	1299	CA	GLU	85	-7.529	-1.462	29.574	1.00	0.00
ATOM	1305	C	GLU	85	-6.890	-0.247	28.905	1.00	0.00
ATOM	1306	O	GLU	85	-6.635	0.768	29.550	1.00	0.00
ATOM	1300	CB	GLU	85	-6.447	-2.399	30.110	1.00	0.00
ATOM	1301	CG	GLU	85	-6.995	-3.529	30.968	1.00	0.00
ATOM	1302	CD	GLU	85	-5.980	-4.627	31.216	1.00	0.00
ATOM	1303	OE1	GLU	85	-5.041	-4.772	30.407	1.00	0.00
ATOM	1304	OE2	GLU	85	-6.126	-5.349	32.229	1.00	0.00
ATOM	1307	H	GLU	85	-8.134	-3.064	28.326	1.00	0.00
ATOM	1308	HA	GLU	85	-8.142	-1.123	30.397	1.00	0.00
ATOM	1309	1HB	GLU	85	-5.753	-1.826	30.708	1.00	0.00
ATOM	1310	2HB	GLU	85	-5.915	-2.833	29.276	1.00	0.00
ATOM	1311	1HG	GLU	85	-7.852	-3.957	30.467	1.00	0.00
ATOM	1312	2HG	GLU	85	-7.301	-3.123	31.920	1.00	0.00



ATOM	1313	N	LEU	86	-6.644	-0.359	27.604	1.00	0.00
ATOM	1314	CA	LEU	86	-6.044	0.723	26.831	1.00	0.00
ATOM	1319	C	LEU	86	-7.075	1.814	26.551	1.00	0.00
ATOM	1320	O	LEU	86	-6.755	3.001	26.541	1.00	0.00
ATOM	1315	CB	LEU	86	-5.485	0.185	25.509	1.00	0.00
ATOM	1316	CG	LEU	86	-3.967	-0.024	25.471	1.00	0.00
ATOM	1317	CD1	LEU	86	-3.630	-1.401	24.922	1.00	0.00
ATOM	1318	CD2	LEU	86	-3.299	1.052	24.631	1.00	0.00
ATOM	1321	H	LEU	86	-6.876	-1.197	27.149	1.00	0.00
ATOM	1322	HA	LEU	86	-5.238	1.143	27.413	1.00	0.00
ATOM	1323	1HB	LEU	86	-5.749	0.878	24.723	1.00	0.00
ATOM	1324	2HB	LEU	86	-5.961	-0.763	25.302	1.00	0.00
ATOM	1325	HG	LEU	86	-3.575	0.042	26.475	1.00	0.00
ATOM	1326	1HD1	LEU	86	-3.766	-1.405	23.851	1.00	0.00
ATOM	1327	2HD1	LEU	86	-4.282	-2.137	25.370	1.00	0.00
ATOM	1328	3HD1	LEU	86	-2.603	-1.641	25.156	1.00	0.00
ATOM	1329	1HD2	LEU	86	-2.226	0.943	24.696	1.00	0.00
ATOM	1330	2HD2	LEU	86	-3.585	2.026	25.000	1.00	0.00
ATOM	1331	3HD2	LEU	86	-3.610	0.951	23.602	1.00	0.00
ATOM	1332	N	PHE	87	-8.314	1.404	26.317	1.00	0.00
ATOM	1333	CA	PHE	87	-9.393	2.344	26.029	1.00	0.00
ATOM	1341	C	PHE	87	-10.026	2.868	27.317	1.00	0.00
ATOM	1342	O	PHE	87	-10.887	3.748	27.279	1.00	0.00
ATOM	1334	CB	PHE	87	-10.457	1.669	25.157	1.00	0.00
ATOM	1335	CG	PHE	87	-11.422	2.630	24.518	1.00	0.00
ATOM	1336	CD1	PHE	87	-11.022	3.438	23.468	1.00	0.00
ATOM	1337	CD2	PHE	87	-12.728	2.728	24.974	1.00	0.00
ATOM	1338	CE1	PHE	87	-11.904	4.328	22.884	1.00	0.00
ATOM	1339	CE2	PHE	87	-13.614	3.614	24.394	1.00	0.00
ATOM	1340	CZ	PHE	87	-13.200	4.416	23.348	1.00	0.00
ATOM	1343	H	PHE	87	-8.512	0.441	26.332	1.00	0.00
ATOM	1344	HA	PHE	87	-8.970	3.176	25.485	1.00	0.00
ATOM	1345	1HB	PHE	87	-11.027	0.982	25.767	1.00	0.00
ATOM	1346	2HB	PHE	87	-9.967	1.119	24.368	1.00	0.00
ATOM	1347	HD1	PHE	87	-10.007	3.370	23.104	1.00	0.00
ATOM	1348	HD2	PHE	87	-13.051	2.101	25.792	1.00	0.00
ATOM	1349	HE1	PHE	87	-11.578	4.953	22.066	1.00	0.00
ATOM	1350	HE2	PHE	87	-14.627	3.681	24.759	1.00	0.00
ATOM	1351	HZ	PHE	87	-13.892	5.111	22.893	1.00	0.00
ATOM	1352	N	GLN	88	-9.598	2.316	28.450	1.00	0.00
ATOM	1353	CA	GLN	88	-10.121	2.706	29.760	1.00	0.00
ATOM	1359	C	GLN	88	-10.098	4.220	29.958	1.00	0.00
ATOM	1360	O	GLN	88	-10.986	4.778	30.603	1.00	0.00
ATOM	1354	CB	GLN	88	-9.324	2.025	30.872	1.00	0.00
ATOM	1355	CG	GLN	88	-10.137	1.026	31.679	1.00	0.00
ATOM	1356	CD	GLN	88	-9.371	0.471	32.864	1.00	0.00
ATOM	1357	OE1	GLN	88	-9.286	-0.742	33.054	1.00	0.00
ATOM	1358	NE2	GLN	88	-8.816	1.358	33.675	1.00	0.00
ATOM	1361	H	GLN	88	-8.918	1.612	28.403	1.00	0.00
ATOM	1362	HA	GLN	88	-11.144	2.368	29.813	1.00	0.00
ATOM	1363	1HB	GLN	88	-8.950	2.782	31.545	1.00	0.00
ATOM	1364	2HB	GLN	88	-8.487	1.504	30.430	1.00	0.00
ATOM	1365	1HG	GLN	88	-10.418	0.206	31.034	1.00	0.00
ATOM	1366	2HG	GLN	88	-11.026	1.517	32.044	1.00	0.00
ATOM	1367	1HE2	GLN	88	-8.930	2.309	33.471	1.00	0.00
ATOM	1368	2HE2	GLN	88	-8.306	1.026	34.454	1.00	0.00
ATOM	1369	N	GLY	89	-9.091	4.885	29.404	1.00	0.00
ATOM	1370	CA	GLY	89	-9.011	6.323	29.544	1.00	0.00
ATOM	1371	C	GLY	89	-7.792	6.923	28.880	1.00	0.00
ATOM	1372	O	GLY	89	-6.954	7.523	29.550	1.00	0.00
ATOM	1373	H	GLY	89	-8.408	4.399	28.897	1.00	0.00
ATOM	1374	1HA	GLY	89	-8.986	6.566	30.596	1.00	0.00
ATOM	1375	2HA	GLY	89	-9.894	6.764	29.107	1.00	0.00
ATOM	1376	N	GLY	90	-7.690	6.783	27.563	1.00	0.00
ATOM	1377	CA	GLY	90	-6.556	7.359	26.869	1.00	0.00
ATOM	1378	C	GLY	90	-6.270	6.763	25.498	1.00	0.00
ATOM	1379	O	GLY	90	-5.148	6.323	25.248	1.00	0.00
ATOM	1380	H	GLY	90	-8.388	6.309	27.065	1.00	0.00
ATOM	1381	1HA	GLY	90	-5.681	7.232	27.486	1.00	0.00
ATOM	1382	2HA	GLY	90	-6.733	8.417	26.746	1.00	0.00
ATOM	1383	N	PRO	91	-7.236	6.768	24.560	1.00	0.00
ATOM	1384	CA	PRO	91	-7.017	6.259	23.208	1.00	0.00
ATOM	1388	C	PRO	91	-6.339	7.306	22.327	1.00	0.00



ATOM	1389	O	PRO	91	-6.549	7.353	21.116	1.00	0.00
ATOM	1385	CB	PRO	91	-8.420	5.975	22.680	1.00	0.00
ATOM	1386	CG	PRO	91	-9.379	6.666	23.591	1.00	0.00
ATOM	1387	CD	PRO	91	-8.594	7.303	24.718	1.00	0.00
ATOM	1390	HA	PRO	91	-6.431	5.351	23.211	1.00	0.00
ATOM	1391	1HB	PRO	91	-8.589	4.911	22.664	1.00	0.00
ATOM	1392	2HB	PRO	91	-8.505	6.373	21.679	1.00	0.00
ATOM	1393	1HG	PRO	91	-10.091	5.952	23.978	1.00	0.00
ATOM	1394	2HG	PRO	91	-9.897	7.421	23.032	1.00	0.00
ATOM	1395	1HD	PRO	91	-9.009	7.014	25.673	1.00	0.00
ATOM	1396	2HD	PRO	91	-8.593	8.378	24.620	1.00	0.00
ATOM	1397	N	ASN	92	-5.550	8.156	22.967	1.00	0.00
ATOM	1398	CA	ASN	92	-4.846	9.240	22.295	1.00	0.00
ATOM	1403	C	ASN	92	-3.870	8.721	21.252	1.00	0.00
ATOM	1404	O	ASN	92	-3.494	7.550	21.271	1.00	0.00
ATOM	1399	CB	ASN	92	-4.109	10.100	23.321	1.00	0.00
ATOM	1400	CG	ASN	92	-5.056	10.951	24.150	1.00	0.00
ATOM	1401	OD1	ASN	92	-6.013	10.446	24.733	1.00	0.00
ATOM	1402	ND2	ASN	92	-4.789	12.243	24.215	1.00	0.00
ATOM	1405	H	ASN	92	-5.454	8.060	23.934	1.00	0.00
ATOM	1406	HA	ASN	92	-5.584	9.850	21.800	1.00	0.00
ATOM	1407	1HB	ASN	92	-3.423	10.756	22.804	1.00	0.00
ATOM	1408	2HB	ASN	92	-3.554	9.459	23.988	1.00	0.00
ATOM	1409	1HD2	ASN	92	-4.004	12.581	23.728	1.00	0.00
ATOM	1410	2HD2	ASN	92	-5.387	12.816	24.753	1.00	0.00
ATOM	1411	N	TRP	93	-3.462	9.609	20.343	1.00	0.00
ATOM	1412	CA	TRP	93	-2.529	9.264	19.268	1.00	0.00
ATOM	1423	C	TRP	93	-1.260	8.602	19.806	1.00	0.00
ATOM	1424	O	TRP	93	-0.612	7.829	19.104	1.00	0.00
ATOM	1413	CB	TRP	93	-2.155	10.507	18.456	1.00	0.00
ATOM	1414	CG	TRP	93	-3.315	11.412	18.148	1.00	0.00
ATOM	1415	CD1	TRP	93	-3.494	12.687	18.604	1.00	0.00
ATOM	1416	CD2	TRP	93	-4.451	11.123	17.315	1.00	0.00
ATOM	1417	NE1	TRP	93	-4.662	13.206	18.108	1.00	0.00
ATOM	1418	CE2	TRP	93	-5.268	12.270	17.319	1.00	0.00
ATOM	1419	CE3	TRP	93	-4.859	10.014	16.567	1.00	0.00
ATOM	1420	CZ2	TRP	93	-6.462	12.340	16.609	1.00	0.00
ATOM	1421	CZ3	TRP	93	-6.050	10.089	15.861	1.00	0.00
ATOM	1422	CH2	TRP	93	-6.835	11.245	15.889	1.00	0.00
ATOM	1425	H	TRP	93	-3.808	10.526	20.391	1.00	0.00
ATOM	1426	HA	TRP	93	-3.029	8.563	18.616	1.00	0.00
ATOM	1427	1HB	TRP	93	-1.720	10.194	17.517	1.00	0.00
ATOM	1428	2HB	TRP	93	-1.428	11.081	19.008	1.00	0.00
ATOM	1429	HD1	TRP	93	-2.806	13.200	19.259	1.00	0.00
ATOM	1430	HE1	TRP	93	-5.013	14.115	18.286	1.00	0.00
ATOM	1431	HE3	TRP	93	-4.266	9.113	16.533	1.00	0.00
ATOM	1432	HZ2	TRP	93	-7.082	13.225	16.620	1.00	0.00
ATOM	1433	HZ3	TRP	93	-6.387	9.249	15.273	1.00	0.00
ATOM	1434	HH2	TRP	93	-7.755	11.258	15.324	1.00	0.00
ATOM	1435	N	GLY	94	-0.921	8.894	21.058	1.00	0.00
ATOM	1436	CA	GLY	94	0.253	8.297	21.662	1.00	0.00
ATOM	1437	C	GLY	94	0.075	6.805	21.868	1.00	0.00
ATOM	1438	O	GLY	94	0.988	6.020	21.628	1.00	0.00
ATOM	1439	H	GLY	94	-1.482	9.504	21.578	1.00	0.00
ATOM	1440	1HA	GLY	94	0.436	8.764	22.619	1.00	0.00
ATOM	1441	2HA	GLY	94	1.105	8.466	21.020	1.00	0.00
ATOM	1442	N	ARG	95	-1.115	6.415	22.302	1.00	0.00
ATOM	1443	CA	ARG	95	-1.426	5.012	22.524	1.00	0.00
ATOM	1451	C	ARG	95	-1.928	4.361	21.242	1.00	0.00
ATOM	1452	O	ARG	95	-1.848	3.143	21.089	1.00	0.00
ATOM	1444	CB	ARG	95	-2.455	4.861	23.642	1.00	0.00
ATOM	1445	CG	ARG	95	-1.939	5.317	24.996	1.00	0.00
ATOM	1446	CD	ARG	95	-1.920	4.179	26.002	1.00	0.00
ATOM	1447	NE	ARG	95	-0.846	3.217	25.739	1.00	0.00
ATOM	1448	CZ	ARG	95	-0.568	2.186	26.539	1.00	0.00
ATOM	1449	NH1	ARG	95	-1.268	2.004	27.651	1.00	0.00
ATOM	1450	NH2	ARG	95	0.405	1.336	26.224	1.00	0.00
ATOM	1453	H	ARG	95	-1.811	7.089	22.462	1.00	0.00
ATOM	1454	HA	ARG	95	-0.512	4.518	22.818	1.00	0.00
ATOM	1455	1HB	ARG	95	-2.740	3.822	23.719	1.00	0.00
ATOM	1456	2HB	ARG	95	-3.327	5.449	23.394	1.00	0.00
ATOM	1457	1HG	ARG	95	-2.581	6.102	25.368	1.00	0.00
ATOM	1458	2HG	ARG	95	-0.935	5.696	24.880	1.00	0.00



ATOM	1459	1HD	ARG	95	-2.869	3.664	25.957	1.00	0.00
ATOM	1460	2HD	ARG	95	-1.784	4.593	26.990	1.00	0.00
ATOM	1461	HE	ARG	95	-0.320	3.343	24.921	1.00	0.00
ATOM	1462	1HH1	ARG	95	-2.007	2.639	27.888	1.00	0.00
ATOM	1463	2HH1	ARG	95	-1.068	1.232	28.262	1.00	0.00
ATOM	1464	1HH2	ARG	95	0.935	1.463	25.386	1.00	0.00
ATOM	1465	2HH2	ARG	95	0.606	0.556	26.822	1.00	0.00
ATOM	1466	N	LEU	96	-2.434	5.190	20.329	1.00	0.00
ATOM	1467	CA	LEU	96	-2.949	4.727	19.039	1.00	0.00
ATOM	1472	C	LEU	96	-1.888	3.912	18.310	1.00	0.00
ATOM	1473	O	LEU	96	-2.196	2.968	17.574	1.00	0.00
ATOM	1468	CB	LEU	96	-3.368	5.932	18.185	1.00	0.00
ATOM	1469	CG	LEU	96	-4.601	5.742	17.290	1.00	0.00
ATOM	1470	CD1	LEU	96	-4.189	5.734	15.830	1.00	0.00
ATOM	1471	CD2	LEU	96	-5.354	4.465	17.636	1.00	0.00
ATOM	1474	H	LEU	96	-2.459	6.152	20.527	1.00	0.00
ATOM	1475	HA	LEU	96	-3.809	4.103	19.223	1.00	0.00
ATOM	1476	1HB	LEU	96	-2.534	6.199	17.553	1.00	0.00
ATOM	1477	2HB	LEU	96	-3.564	6.760	18.851	1.00	0.00
ATOM	1478	HG	LEU	96	-5.272	6.576	17.438	1.00	0.00
ATOM	1479	1HD1	LEU	96	-5.058	5.902	15.210	1.00	0.00
ATOM	1480	2HD1	LEU	96	-3.751	4.778	15.584	1.00	0.00
ATOM	1481	3HD1	LEU	96	-3.466	6.516	15.654	1.00	0.00
ATOM	1482	1HD2	LEU	96	-4.655	3.644	17.708	1.00	0.00
ATOM	1483	2HD2	LEU	96	-6.080	4.254	16.866	1.00	0.00
ATOM	1484	3HD2	LEU	96	-5.860	4.592	18.583	1.00	0.00
ATOM	1485	N	VAL	97	-0.637	4.271	18.555	1.00	0.00
ATOM	1486	CA	VAL	97	0.493	3.578	17.966	1.00	0.00
ATOM	1490	C	VAL	97	0.478	2.114	18.381	1.00	0.00
ATOM	1491	O	VAL	97	0.454	1.212	17.545	1.00	0.00
ATOM	1487	CB	VAL	97	1.823	4.187	18.433	1.00	0.00
ATOM	1488	CG1	VAL	97	2.962	3.602	17.627	1.00	0.00
ATOM	1489	CG2	VAL	97	1.800	5.705	18.332	1.00	0.00
ATOM	1492	H	VAL	97	-0.470	5.013	19.174	1.00	0.00
ATOM	1493	HA	VAL	97	0.432	3.660	16.885	1.00	0.00
ATOM	1494	HB	VAL	97	1.972	3.918	19.469	1.00	0.00
ATOM	1495	1HG1	VAL	97	3.854	3.570	18.235	1.00	0.00
ATOM	1496	2HG1	VAL	97	3.141	4.217	16.757	1.00	0.00
ATOM	1497	3HG1	VAL	97	2.704	2.602	17.314	1.00	0.00
ATOM	1498	1HG2	VAL	97	1.100	6.005	17.565	1.00	0.00
ATOM	1499	2HG2	VAL	97	2.787	6.064	18.079	1.00	0.00
ATOM	1500	3HG2	VAL	97	1.497	6.124	19.281	1.00	0.00
ATOM	1501	N	ALA	98	0.486	1.902	19.692	1.00	0.00
ATOM	1502	CA	ALA	98	0.477	0.568	20.271	1.00	0.00
ATOM	1504	C	ALA	98	-0.788	-0.194	19.902	1.00	0.00
ATOM	1505	O	ALA	98	-0.773	-1.417	19.843	1.00	0.00
ATOM	1503	CB	ALA	98	0.620	0.649	21.782	1.00	0.00
ATOM	1506	H	ALA	98	0.499	2.674	20.290	1.00	0.00
ATOM	1507	HA	ALA	98	1.331	0.032	19.882	1.00	0.00
ATOM	1508	1HB	ALA	98	0.708	-0.348	22.189	1.00	0.00
ATOM	1509	2HB	ALA	98	-0.248	1.134	22.201	1.00	0.00
ATOM	1510	3HB	ALA	98	1.505	1.218	22.029	1.00	0.00
ATOM	1511	N	PHE	99	-1.872	0.531	19.649	1.00	0.00
ATOM	1512	CA	PHE	99	-3.136	-0.088	19.276	1.00	0.00
ATOM	1520	C	PHE	99	-2.958	-0.925	18.013	1.00	0.00
ATOM	1521	O	PHE	99	-3.268	-2.117	17.991	1.00	0.00
ATOM	1513	CB	PHE	99	-4.201	0.987	19.023	1.00	0.00
ATOM	1514	CG	PHE	99	-5.028	1.398	20.218	1.00	0.00
ATOM	1515	CD1	PHE	99	-5.870	0.502	20.860	1.00	0.00
ATOM	1516	CD2	PHE	99	-4.985	2.706	20.672	1.00	0.00
ATOM	1517	CE1	PHE	99	-6.651	0.910	21.932	1.00	0.00
ATOM	1518	CE2	PHE	99	-5.754	3.117	21.742	1.00	0.00
ATOM	1519	CZ	PHE	99	-6.591	2.223	22.372	1.00	0.00
ATOM	1522	H	PHE	99	-1.822	1.508	19.706	1.00	0.00
ATOM	1523	HA	PHE	99	-3.447	-0.733	20.081	1.00	0.00
ATOM	1524	1HB	PHE	99	-4.874	0.629	18.264	1.00	0.00
ATOM	1525	2HB	PHE	99	-3.711	1.875	18.655	1.00	0.00
ATOM	1526	HD1	PHE	99	-5.915	-0.522	20.520	1.00	0.00
ATOM	1527	HD2	PHE	99	-4.332	3.412	20.182	1.00	0.00
ATOM	1528	HE1	PHE	99	-7.303	0.204	22.425	1.00	0.00
ATOM	1529	HE2	PHE	99	-5.704	4.141	22.082	1.00	0.00
ATOM	1530	HZ	PHE	99	-7.204	2.552	23.204	1.00	0.00
ATOM	1531	N	PHE	100	-2.450	-0.288	16.964	1.00	0.00



ATOM	1532	CA	PHE	100	-2.230	-0.970	15.695	1.00	0.00
ATOM	1540	C	PHE	100	-0.994	-1.862	15.757	1.00	0.00
ATOM	1541	O	PHE	100	-0.970	-2.955	15.185	1.00	0.00
ATOM	1533	CB	PHE	100	-2.076	0.051	14.564	1.00	0.00
ATOM	1534	CG	PHE	100	-3.373	0.414	13.904	1.00	0.00
ATOM	1535	CD1	PHE	100	-4.152	1.446	14.403	1.00	0.00
ATOM	1536	CD2	PHE	100	-3.816	-0.277	12.789	1.00	0.00
ATOM	1537	CE1	PHE	100	-5.348	1.778	13.802	1.00	0.00
ATOM	1538	CE2	PHE	100	-5.012	0.053	12.183	1.00	0.00
ATOM	1539	CZ	PHE	100	-5.780	1.082	12.691	1.00	0.00
ATOM	1542	H	PHE	100	-2.219	0.666	17.047	1.00	0.00
ATOM	1543	HA	PHE	100	-3.095	-1.584	15.495	1.00	0.00
ATOM	1544	1HB	PHE	100	-1.422	-0.359	13.807	1.00	0.00
ATOM	1545	2HB	PHE	100	-1.639	0.954	14.958	1.00	0.00
ATOM	1546	HD1	PHE	100	-3.815	1.992	15.272	1.00	0.00
ATOM	1547	HD2	PHE	100	-3.214	-1.080	12.391	1.00	0.00
ATOM	1548	HE1	PHE	100	-5.948	2.584	14.201	1.00	0.00
ATOM	1549	HE2	PHE	100	-5.347	-0.494	11.315	1.00	0.00
ATOM	1550	HZ	PHE	100	-6.717	1.340	12.221	1.00	0.00
ATOM	1551	N	VAL	101	0.034	-1.384	16.446	1.00	0.00
ATOM	1552	CA	VAL	101	1.287	-2.119	16.577	1.00	0.00
ATOM	1556	C	VAL	101	1.092	-3.449	17.309	1.00	0.00
ATOM	1557	O	VAL	101	1.722	-4.448	16.952	1.00	0.00
ATOM	1553	CB	VAL	101	2.362	-1.264	17.299	1.00	0.00
ATOM	1554	CG1	VAL	101	3.460	-2.129	17.905	1.00	0.00
ATOM	1555	CG2	VAL	101	2.964	-0.250	16.336	1.00	0.00
ATOM	1558	H	VAL	101	-0.047	-0.501	16.870	1.00	0.00
ATOM	1559	HA	VAL	101	1.646	-2.328	15.579	1.00	0.00
ATOM	1560	HB	VAL	101	1.880	-0.719	18.099	1.00	0.00
ATOM	1561	1HG1	VAL	101	4.424	-1.689	17.693	1.00	0.00
ATOM	1562	2HG1	VAL	101	3.415	-3.119	17.478	1.00	0.00
ATOM	1563	3HG1	VAL	101	3.320	-2.191	18.974	1.00	0.00
ATOM	1564	1HG2	VAL	101	2.625	0.741	16.599	1.00	0.00
ATOM	1565	2HG2	VAL	101	2.654	-0.482	15.328	1.00	0.00
ATOM	1566	3HG2	VAL	101	4.042	-0.290	16.399	1.00	0.00
ATOM	1567	N	PHE	102	0.227	-3.464	18.326	1.00	0.00
ATOM	1568	CA	PHE	102	-0.024	-4.680	19.100	1.00	0.00
ATOM	1576	C	PHE	102	-0.431	-5.847	18.208	1.00	0.00
ATOM	1577	O	PHE	102	0.166	-6.921	18.267	1.00	0.00
ATOM	1569	CB	PHE	102	-1.110	-4.435	20.151	1.00	0.00
ATOM	1570	CG	PHE	102	-0.581	-4.326	21.554	1.00	0.00
ATOM	1571	CD1	PHE	102	0.687	-3.822	21.796	1.00	0.00
ATOM	1572	CD2	PHE	102	-1.357	-4.723	22.629	1.00	0.00
ATOM	1573	CE1	PHE	102	1.171	-3.716	23.085	1.00	0.00
ATOM	1574	CE2	PHE	102	-0.879	-4.620	23.921	1.00	0.00
ATOM	1575	CZ	PHE	102	0.387	-4.116	24.150	1.00	0.00
ATOM	1578	H	PHE	102	-0.254	-2.632	18.571	1.00	0.00
ATOM	1579	HA	PHE	102	0.894	-4.940	19.604	1.00	0.00
ATOM	1580	1HB	PHE	102	-1.815	-5.253	20.125	1.00	0.00
ATOM	1581	2HB	PHE	102	-1.625	-3.516	19.919	1.00	0.00
ATOM	1582	HD1	PHE	102	1.301	-3.510	20.964	1.00	0.00
ATOM	1583	HD2	PHE	102	-2.347	-5.118	22.452	1.00	0.00
ATOM	1584	HE1	PHE	102	2.161	-3.322	23.260	1.00	0.00
ATOM	1585	HE2	PHE	102	-1.494	-4.933	24.751	1.00	0.00
ATOM	1586	HZ	PHE	102	0.763	-4.034	25.159	1.00	0.00
ATOM	1587	N	GLY	103	-1.454	-5.639	17.393	1.00	0.00
ATOM	1588	CA	GLY	103	-1.920	-6.699	16.522	1.00	0.00
ATOM	1589	C	GLY	103	-1.002	-6.959	15.344	1.00	0.00
ATOM	1590	O	GLY	103	-0.843	-8.103	14.930	1.00	0.00
ATOM	1591	H	GLY	103	-1.900	-4.766	17.393	1.00	0.00
ATOM	1592	1HA	GLY	103	-2.896	-6.447	16.152	1.00	0.00
ATOM	1593	2HA	GLY	103	-1.999	-7.608	17.100	1.00	0.00
ATOM	1594	N	ALA	104	-0.395	-5.906	14.804	1.00	0.00
ATOM	1595	CA	ALA	104	0.512	-6.050	13.666	1.00	0.00
ATOM	1597	C	ALA	104	1.720	-6.893	14.050	1.00	0.00
ATOM	1598	O	ALA	104	2.141	-7.770	13.297	1.00	0.00
ATOM	1596	CB	ALA	104	0.951	-4.684	13.155	1.00	0.00
ATOM	1599	H	ALA	104	-0.558	-5.012	15.176	1.00	0.00
ATOM	1600	HA	ALA	104	-0.024	-6.557	12.871	1.00	0.00
ATOM	1601	1HB	ALA	104	1.994	-4.719	12.882	1.00	0.00
ATOM	1602	2HB	ALA	104	0.805	-3.946	13.931	1.00	0.00
ATOM	1603	3HB	ALA	104	0.362	-4.417	12.290	1.00	0.00
ATOM	1604	N	ALA	105	2.261	-6.645	15.236	1.00	0.00



ATOM	1605	CA	ALA	105	3.401	-7.410	15.714	1.00	0.00
ATOM	1607	C	ALA	105	2.966	-8.837	16.022	1.00	0.00
ATOM	1608	O	ALA	105	3.676	-9.795	15.717	1.00	0.00
ATOM	1606	CB	ALA	105	4.015	-6.756	16.945	1.00	0.00
ATOM	1609	H	ALA	105	1.873	-5.945	15.811	1.00	0.00
ATOM	1610	HA	ALA	105	4.146	-7.429	14.929	1.00	0.00
ATOM	1611	1HB	ALA	105	5.074	-6.612	16.786	1.00	0.00
ATOM	1612	2HB	ALA	105	3.865	-7.393	17.804	1.00	0.00
ATOM	1613	3HB	ALA	105	3.543	-5.800	17.118	1.00	0.00
ATOM	1614	N	LEU	106	1.778	-8.960	16.612	1.00	0.00
ATOM	1615	CA	LEU	106	1.208	-10.258	16.964	1.00	0.00
ATOM	1620	C	LEU	106	1.039	-11.126	15.724	1.00	0.00
ATOM	1621	O	LEU	106	1.332	-12.321	15.731	1.00	0.00
ATOM	1616	CB	LEU	106	-0.147	-10.047	17.652	1.00	0.00
ATOM	1617	CG	LEU	106	-0.405	-10.919	18.881	1.00	0.00
ATOM	1618	CD1	LEU	106	-0.697	-10.047	20.092	1.00	0.00
ATOM	1619	CD2	LEU	106	-1.555	-11.880	18.623	1.00	0.00
ATOM	1622	H	LEU	106	1.261	-8.147	16.813	1.00	0.00
ATOM	1623	HA	LEU	106	1.883	-10.747	17.644	1.00	0.00
ATOM	1624	1HB	LEU	106	-0.931	-10.231	16.931	1.00	0.00
ATOM	1625	2HB	LEU	106	-0.207	-9.013	17.959	1.00	0.00
ATOM	1626	HG	LEU	106	0.479	-11.502	19.095	1.00	0.00
ATOM	1627	1HD1	LEU	106	-1.345	-10.579	20.773	1.00	0.00
ATOM	1628	2HD1	LEU	106	-1.181	-9.136	19.772	1.00	0.00
ATOM	1629	3HD1	LEU	106	0.229	-9.804	20.593	1.00	0.00
ATOM	1630	1HD2	LEU	106	-1.230	-12.891	18.819	1.00	0.00
ATOM	1631	2HD2	LEU	106	-1.870	-11.796	17.593	1.00	0.00
ATOM	1632	3HD2	LEU	106	-2.382	-11.634	19.274	1.00	0.00
ATOM	1633	N	CYS	107	0.573	-10.501	14.662	1.00	0.00
ATOM	1634	CA	CYS	107	0.354	-11.170	13.393	1.00	0.00
ATOM	1637	C	CYS	107	1.678	-11.563	12.746	1.00	0.00
ATOM	1638	O	CYS	107	1.804	-12.653	12.194	1.00	0.00
ATOM	1635	CB	CYS	107	-0.442	-10.246	12.470	1.00	0.00
ATOM	1636	SG	CYS	107	-2.151	-9.986	12.988	1.00	0.00
ATOM	1639	H	CYS	107	0.370	-9.548	14.733	1.00	0.00
ATOM	1640	HA	CYS	107	-0.220	-12.064	13.578	1.00	0.00
ATOM	1641	1HB	CYS	107	-0.457	-10.656	11.474	1.00	0.00
ATOM	1642	2HB	CYS	107	0.037	-9.281	12.444	1.00	0.00
ATOM	1643	HG	CYS	107	-2.137	-9.193	14.053	1.00	0.00
ATOM	1644	N	ALA	108	2.658	-10.668	12.822	1.00	0.00
ATOM	1645	CA	ALA	108	3.976	-10.907	12.243	1.00	0.00
ATOM	1647	C	ALA	108	4.588	-12.216	12.736	1.00	0.00
ATOM	1648	O	ALA	108	5.072	-13.018	11.937	1.00	0.00
ATOM	1646	CB	ALA	108	4.906	-9.741	12.553	1.00	0.00
ATOM	1649	H	ALA	108	2.488	-9.816	13.277	1.00	0.00
ATOM	1650	HA	ALA	108	3.860	-10.962	11.171	1.00	0.00
ATOM	1651	1HB	ALA	108	5.924	-10.025	12.335	1.00	0.00
ATOM	1652	2HB	ALA	108	4.821	-9.480	13.598	1.00	0.00
ATOM	1653	3HB	ALA	108	4.631	-8.890	11.947	1.00	0.00
ATOM	1654	N	GLU	109	4.568	-12.436	14.047	1.00	0.00
ATOM	1655	CA	GLU	109	5.137	-13.655	14.609	1.00	0.00
ATOM	1661	C	GLU	109	4.249	-14.869	14.350	1.00	0.00
ATOM	1662	O	GLU	109	4.722	-16.004	14.399	1.00	0.00
ATOM	1656	CB	GLU	109	5.402	-13.508	16.106	1.00	0.00
ATOM	1657	CG	GLU	109	6.846	-13.145	16.416	1.00	0.00
ATOM	1658	CD	GLU	109	7.448	-13.989	17.524	1.00	0.00
ATOM	1659	OE1	GLU	109	6.688	-14.572	18.321	1.00	0.00
ATOM	1660	OE2	GLU	109	8.692	-14.086	17.584	1.00	0.00
ATOM	1663	H	GLU	109	4.170	-11.765	14.648	1.00	0.00
ATOM	1664	HA	GLU	109	6.081	-13.820	14.111	1.00	0.00
ATOM	1665	1HB	GLU	109	5.173	-14.441	16.597	1.00	0.00
ATOM	1666	2HB	GLU	109	4.763	-12.733	16.501	1.00	0.00
ATOM	1667	1HG	GLU	109	6.884	-12.108	16.711	1.00	0.00
ATOM	1668	2HG	GLU	109	7.435	-13.283	15.521	1.00	0.00
ATOM	1669	N	SER	110	2.975	-14.640	14.062	1.00	0.00
ATOM	1670	CA	SER	110	2.067	-15.747	13.794	1.00	0.00
ATOM	1673	C	SER	110	2.263	-16.267	12.369	1.00	0.00
ATOM	1674	O	SER	110	2.183	-17.469	12.119	1.00	0.00
ATOM	1671	CB	SER	110	0.613	-15.319	14.015	1.00	0.00
ATOM	1672	OG	SER	110	-0.146	-16.367	14.597	1.00	0.00
ATOM	1675	H	SER	110	2.638	-13.716	14.027	1.00	0.00
ATOM	1676	HA	SER	110	2.306	-16.542	14.485	1.00	0.00
ATOM	1677	1HB	SER	110	0.169	-15.055	13.065	1.00	0.00



ATOM	1678	2HB	SER	110	0.588	-14.464	14.674	1.00	0.00
ATOM	1679	HG	SER	110	0.183	-17.218	14.276	1.00	0.00
ATOM	1680	N	VAL	111	2.545	-15.361	11.438	1.00	0.00
ATOM	1681	CA	VAL	111	2.764	-15.747	10.047	1.00	0.00
ATOM	1685	C	VAL	111	4.054	-16.559	9.904	1.00	0.00
ATOM	1686	O	VAL	111	4.262	-17.227	8.892	1.00	0.00
ATOM	1682	CB	VAL	111	2.824	-14.517	9.110	1.00	0.00
ATOM	1683	CG1	VAL	111	2.882	-14.946	7.651	1.00	0.00
ATOM	1684	CG2	VAL	111	1.626	-13.612	9.337	1.00	0.00
ATOM	1687	H	VAL	111	2.612	-14.414	11.692	1.00	0.00
ATOM	1688	HA	VAL	111	1.933	-16.365	9.741	1.00	0.00
ATOM	1689	HB	VAL	111	3.721	-13.958	9.335	1.00	0.00
ATOM	1690	1HG1	VAL	111	1.914	-15.316	7.347	1.00	0.00
ATOM	1691	2HG1	VAL	111	3.619	-15.728	7.536	1.00	0.00
ATOM	1692	3HG1	VAL	111	3.154	-14.101	7.036	1.00	0.00
ATOM	1693	1HG2	VAL	111	1.305	-13.693	10.365	1.00	0.00
ATOM	1694	2HG2	VAL	111	0.820	-13.910	8.683	1.00	0.00
ATOM	1695	3HG2	VAL	111	1.901	-12.588	9.125	1.00	0.00
ATOM	1696	N	ASN	112	4.906	-16.493	10.930	1.00	0.00
ATOM	1697	CA	ASN	112	6.180	-17.216	10.945	1.00	0.00
ATOM	1702	C	ASN	112	6.008	-18.662	10.485	1.00	0.00
ATOM	1703	O	ASN	112	6.449	-19.027	9.395	1.00	0.00
ATOM	1698	CB	ASN	112	6.780	-17.194	12.350	1.00	0.00
ATOM	1699	CG	ASN	112	7.788	-16.078	12.542	1.00	0.00
ATOM	1700	OD1	ASN	112	8.574	-15.770	11.648	1.00	0.00
ATOM	1701	ND2	ASN	112	7.769	-15.466	13.715	1.00	0.00
ATOM	1704	H	ASN	112	4.668	-15.939	11.703	1.00	0.00
ATOM	1705	HA	ASN	112	6.853	-16.714	10.268	1.00	0.00
ATOM	1706	1HB	ASN	112	7.275	-18.136	12.536	1.00	0.00
ATOM	1707	2HB	ASN	112	5.988	-17.063	13.073	1.00	0.00
ATOM	1708	1HD2	ASN	112	7.115	-15.766	14.384	1.00	0.00
ATOM	1709	2HD2	ASN	112	8.407	-14.740	13.871	1.00	0.00
ATOM	1710	N	LYS	113	5.355	-19.474	11.316	1.00	0.00
ATOM	1711	CA	LYS	113	5.112	-20.877	10.988	1.00	0.00
ATOM	1717	C	LYS	113	4.253	-21.545	12.058	1.00	0.00
ATOM	1718	O	LYS	113	4.463	-22.713	12.383	1.00	0.00
ATOM	1712	CB	LYS	113	6.441	-21.634	10.859	1.00	0.00
ATOM	1713	CG	LYS	113	6.541	-22.489	9.606	1.00	0.00
ATOM	1714	CD	LYS	113	7.711	-23.456	9.685	1.00	0.00
ATOM	1715	CE	LYS	113	8.965	-22.862	9.062	1.00	0.00
ATOM	1716	NZ	LYS	113	10.164	-23.065	9.919	1.00	0.00
ATOM	1719	H	LYS	113	5.021	-19.118	12.166	1.00	0.00
ATOM	1720	HA	LYS	113	4.590	-20.915	10.044	1.00	0.00
ATOM	1721	1HB	LYS	113	6.560	-22.277	11.718	1.00	0.00
ATOM	1722	2HB	LYS	113	7.250	-20.917	10.843	1.00	0.00
ATOM	1723	1HG	LYS	113	6.675	-21.843	8.752	1.00	0.00
ATOM	1724	2HG	LYS	113	5.628	-23.053	9.494	1.00	0.00
ATOM	1725	1HD	LYS	113	7.452	-24.362	9.158	1.00	0.00
ATOM	1726	2HD	LYS	113	7.909	-23.683	10.721	1.00	0.00
ATOM	1727	1HE	LYS	113	8.812	-21.803	8.918	1.00	0.00
ATOM	1728	2HE	LYS	113	9.135	-23.334	8.106	1.00	0.00
ATOM	1729	1HZ	LYS	113	10.037	-23.907	10.526	1.00	0.00
ATOM	1730	2HZ	LYS	113	10.315	-22.230	10.529	1.00	0.00
ATOM	1731	3HZ	LYS	113	11.005	-23.203	9.329	1.00	0.00
ATOM	1732	N	GLU	114	3.283	-20.806	12.596	1.00	0.00
ATOM	1733	CA	GLU	114	2.394	-21.329	13.626	1.00	0.00
ATOM	1739	C	GLU	114	1.112	-20.507	13.706	1.00	0.00
ATOM	1740	O	GLU	114	1.162	-19.301	13.946	1.00	0.00
ATOM	1734	CB	GLU	114	3.089	-21.312	14.989	1.00	0.00
ATOM	1735	CG	GLU	114	3.870	-22.577	15.278	1.00	0.00
ATOM	1736	CD	GLU	114	4.726	-22.476	16.521	1.00	0.00
ATOM	1737	OE1	GLU	114	5.847	-21.923	16.432	1.00	0.00
ATOM	1738	OE2	GLU	114	4.302	-22.969	17.583	1.00	0.00
ATOM	1741	H	GLU	114	3.156	-19.888	12.294	1.00	0.00
ATOM	1742	HA	GLU	114	2.146	-22.348	13.368	1.00	0.00
ATOM	1743	1HB	GLU	114	2.341	-21.193	15.761	1.00	0.00
ATOM	1744	2HB	GLU	114	3.769	-20.474	15.026	1.00	0.00
ATOM	1745	1HG	GLU	114	4.511	-22.787	14.433	1.00	0.00
ATOM	1746	2HG	GLU	114	3.172	-23.384	15.401	1.00	0.00
ATOM	1747	N	MET	115	-0.027	-21.181	13.520	1.00	0.00
ATOM	1748	CA	MET	115	-1.356	-20.553	13.580	1.00	0.00
ATOM	1753	C	MET	115	-1.610	-19.631	12.390	1.00	0.00
ATOM	1754	O	MET	115	-0.955	-18.604	12.227	1.00	0.00



ATOM	1749	CB	MET	115	-1.553	-19.767	14.882	1.00	0.00
ATOM	1750	CG	MET	115	-1.152	-20.531	16.133	1.00	0.00
ATOM	1751	SD	MET	115	-0.767	-19.439	17.514	1.00	0.00
ATOM	1752	CE	MET	115	0.971	-19.801	17.755	1.00	0.00
ATOM	1755	H	MET	115	0.028	-22.148	13.345	1.00	0.00
ATOM	1756	HA	MET	115	-2.085	-21.350	13.549	1.00	0.00
ATOM	1757	1HB	MET	115	-2.596	-19.498	14.970	1.00	0.00
ATOM	1758	2HB	MET	115	-0.963	-18.864	14.835	1.00	0.00
ATOM	1759	1HG	MET	115	-0.280	-21.128	15.910	1.00	0.00
ATOM	1760	2HG	MET	115	-1.968	-21.177	16.421	1.00	0.00
ATOM	1761	1HE	MET	115	1.407	-20.121	16.819	1.00	0.00
ATOM	1762	2HE	MET	115	1.078	-20.586	18.489	1.00	0.00
ATOM	1763	3HE	MET	115	1.477	-18.913	18.103	1.00	0.00
ATOM	1764	N	GLU	116	-2.577	-19.999	11.562	1.00	0.00
ATOM	1765	CA	GLU	116	-2.919	-19.200	10.392	1.00	0.00
ATOM	1771	C	GLU	116	-4.192	-18.360	10.614	1.00	0.00
ATOM	1772	O	GLU	116	-4.164	-17.142	10.433	1.00	0.00
ATOM	1766	CB	GLU	116	-3.074	-20.088	9.152	1.00	0.00
ATOM	1767	CG	GLU	116	-1.974	-21.127	9.000	1.00	0.00
ATOM	1768	CD	GLU	116	-2.491	-22.541	9.159	1.00	0.00
ATOM	1769	OE1	GLU	116	-3.657	-22.796	8.793	1.00	0.00
ATOM	1770	OE2	GLU	116	-1.736	-23.403	9.649	1.00	0.00
ATOM	1773	H	GLU	116	-3.072	-20.826	11.740	1.00	0.00
ATOM	1774	HA	GLU	116	-2.097	-18.521	10.223	1.00	0.00
ATOM	1775	1HB	GLU	116	-3.069	-19.460	8.273	1.00	0.00
ATOM	1776	2HB	GLU	116	-4.020	-20.604	9.209	1.00	0.00
ATOM	1777	1HG	GLU	116	-1.220	-20.947	9.752	1.00	0.00
ATOM	1778	2HG	GLU	116	-1.534	-21.028	8.019	1.00	0.00
ATOM	1779	N	PRO	117	-5.338	-18.982	10.991	1.00	0.00
ATOM	1780	CA	PRO	117	-6.605	-18.253	11.197	1.00	0.00
ATOM	1784	C	PRO	117	-6.531	-17.170	12.277	1.00	0.00
ATOM	1785	O	PRO	117	-7.277	-16.192	12.233	1.00	0.00
ATOM	1781	CB	PRO	117	-7.591	-19.348	11.625	1.00	0.00
ATOM	1782	CG	PRO	117	-6.998	-20.615	11.120	1.00	0.00
ATOM	1783	CD	PRO	117	-5.513	-20.433	11.215	1.00	0.00
ATOM	1786	HA	PRO	117	-6.950	-17.805	10.277	1.00	0.00
ATOM	1787	1HB	PRO	117	-8.556	-19.160	11.179	1.00	0.00
ATOM	1788	2HB	PRO	117	-7.680	-19.354	12.701	1.00	0.00
ATOM	1789	1HG	PRO	117	-7.292	-20.775	10.093	1.00	0.00
ATOM	1790	2HG	PRO	117	-7.317	-21.442	11.737	1.00	0.00
ATOM	1791	1HD	PRO	117	-5.012	-21.004	10.448	1.00	0.00
ATOM	1792	2HD	PRO	117	-5.159	-20.719	12.194	1.00	0.00
ATOM	1793	N	LEU	118	-5.645	-17.355	13.249	1.00	0.00
ATOM	1794	CA	LEU	118	-5.500	-16.400	14.348	1.00	0.00
ATOM	1799	C	LEU	118	-5.060	-15.016	13.861	1.00	0.00
ATOM	1800	O	LEU	118	-5.431	-14.006	14.454	1.00	0.00
ATOM	1795	CB	LEU	118	-4.518	-16.938	15.396	1.00	0.00
ATOM	1796	CG	LEU	118	-5.170	-17.628	16.595	1.00	0.00
ATOM	1797	CD1	LEU	118	-5.286	-19.124	16.348	1.00	0.00
ATOM	1798	CD2	LEU	118	-4.374	-17.351	17.861	1.00	0.00
ATOM	1801	H	LEU	118	-5.085	-18.158	13.236	1.00	0.00
ATOM	1802	HA	LEU	118	-6.470	-16.299	14.812	1.00	0.00
ATOM	1803	1HB	LEU	118	-3.927	-16.114	15.766	1.00	0.00
ATOM	1804	2HB	LEU	118	-3.859	-17.646	14.917	1.00	0.00
ATOM	1805	HG	LEU	118	-6.166	-17.234	16.731	1.00	0.00
ATOM	1806	1HD1	LEU	118	-4.615	-19.652	17.008	1.00	0.00
ATOM	1807	2HD1	LEU	118	-5.027	-19.341	15.322	1.00	0.00
ATOM	1808	3HD1	LEU	118	-6.302	-19.442	16.536	1.00	0.00
ATOM	1809	1HD2	LEU	118	-4.523	-16.324	18.163	1.00	0.00
ATOM	1810	2HD2	LEU	118	-3.325	-17.522	17.672	1.00	0.00
ATOM	1811	3HD2	LEU	118	-4.709	-18.010	18.649	1.00	0.00
ATOM	1812	N	VAL	119	-4.281	-14.971	12.783	1.00	0.00
ATOM	1813	CA	VAL	119	-3.798	-13.703	12.226	1.00	0.00
ATOM	1817	C	VAL	119	-4.958	-12.805	11.798	1.00	0.00
ATOM	1818	O	VAL	119	-5.069	-11.664	12.251	1.00	0.00
ATOM	1814	CB	VAL	119	-2.871	-13.946	11.014	1.00	0.00
ATOM	1815	CG1	VAL	119	-2.451	-12.631	10.372	1.00	0.00
ATOM	1816	CG2	VAL	119	-1.652	-14.758	11.424	1.00	0.00
ATOM	1819	H	VAL	119	-4.022	-15.812	12.349	1.00	0.00
ATOM	1820	HA	VAL	119	-3.233	-13.189	12.994	1.00	0.00
ATOM	1821	HB	VAL	119	-3.421	-14.515	10.279	1.00	0.00
ATOM	1822	1HG1	VAL	119	-3.330	-12.066	10.100	1.00	0.00
ATOM	1823	2HG1	VAL	119	-1.864	-12.833	9.488	1.00	0.00



ATOM	1824	3HG1	VAL	119	-1.859	-12.061	11.074	1.00	0.00
ATOM	1825	1HG2	VAL	119	-1.785	-15.786	11.118	1.00	0.00
ATOM	1826	2HG2	VAL	119	-1.534	-14.714	12.496	1.00	0.00
ATOM	1827	3HG2	VAL	119	-0.772	-14.352	10.948	1.00	0.00
ATOM	1828	N	GLY	120	-5.820	-13.325	10.932	1.00	0.00
ATOM	1829	CA	GLY	120	-6.956	-12.549	10.466	1.00	0.00
ATOM	1830	C	GLY	120	-7.894	-12.184	11.594	1.00	0.00
ATOM	1831	O	GLY	120	-8.556	-11.148	11.550	1.00	0.00
ATOM	1832	H	GLY	120	-5.686	-14.239	10.608	1.00	0.00
ATOM	1833	1HA	GLY	120	-7.497	-13.115	9.729	1.00	0.00
ATOM	1834	2HA	GLY	120	-6.593	-11.640	10.009	1.00	0.00
ATOM	1835	N	GLN	121	-7.935	-13.027	12.618	1.00	0.00
ATOM	1836	CA	GLN	121	-8.780	-12.774	13.768	1.00	0.00
ATOM	1842	C	GLN	121	-8.252	-11.576	14.542	1.00	0.00
ATOM	1843	O	GLN	121	-8.997	-10.658	14.837	1.00	0.00
ATOM	1837	CB	GLN	121	-8.864	-14.005	14.663	1.00	0.00
ATOM	1838	CG	GLN	121	-9.790	-15.077	14.117	1.00	0.00
ATOM	1839	CD	GLN	121	-10.827	-15.521	15.127	1.00	0.00
ATOM	1840	OE1	GLN	121	-10.621	-16.489	15.855	1.00	0.00
ATOM	1841	NE2	GLN	121	-11.947	-14.818	15.183	1.00	0.00
ATOM	1844	H	GLN	121	-7.373	-13.828	12.602	1.00	0.00
ATOM	1845	HA	GLN	121	-9.769	-12.535	13.405	1.00	0.00
ATOM	1846	1HB	GLN	121	-9.228	-13.706	15.635	1.00	0.00
ATOM	1847	2HB	GLN	121	-7.878	-14.428	14.772	1.00	0.00
ATOM	1848	1HG	GLN	121	-9.199	-15.934	13.829	1.00	0.00
ATOM	1849	2HG	GLN	121	-10.301	-14.685	13.249	1.00	0.00
ATOM	1850	1HE2	GLN	121	-12.050	-14.043	14.571	1.00	0.00
ATOM	1851	2HE2	GLN	121	-12.638	-15.099	15.826	1.00	0.00
ATOM	1852	N	VAL	122	-6.962	-11.558	14.839	1.00	0.00
ATOM	1853	CA	VAL	122	-6.374	-10.425	15.548	1.00	0.00
ATOM	1857	C	VAL	122	-6.643	-9.144	14.767	1.00	0.00
ATOM	1858	O	VAL	122	-6.903	-8.085	15.345	1.00	0.00
ATOM	1854	CB	VAL	122	-4.850	-10.606	15.748	1.00	0.00
ATOM	1855	CG1	VAL	122	-4.247	-9.402	16.454	1.00	0.00
ATOM	1856	CG2	VAL	122	-4.557	-11.878	16.526	1.00	0.00
ATOM	1859	H	VAL	122	-6.388	-12.306	14.556	1.00	0.00
ATOM	1860	HA	VAL	122	-6.856	-10.346	16.519	1.00	0.00
ATOM	1861	HB	VAL	122	-4.387	-10.695	14.774	1.00	0.00
ATOM	1862	1HG1	VAL	122	-3.244	-9.237	16.091	1.00	0.00
ATOM	1863	2HG1	VAL	122	-4.218	-9.587	17.518	1.00	0.00
ATOM	1864	3HG1	VAL	122	-4.851	-8.529	16.256	1.00	0.00
ATOM	1865	1HG2	VAL	122	-4.552	-12.721	15.850	1.00	0.00
ATOM	1866	2HG2	VAL	122	-5.317	-12.024	17.279	1.00	0.00
ATOM	1867	3HG2	VAL	122	-3.591	-11.794	17.002	1.00	0.00
ATOM	1868	N	GLN	123	-6.611	-9.265	13.447	1.00	0.00
ATOM	1869	CA	GLN	123	-6.877	-8.144	12.563	1.00	0.00
ATOM	1875	C	GLN	123	-8.296	-7.615	12.767	1.00	0.00
ATOM	1876	O	GLN	123	-8.505	-6.406	12.893	1.00	0.00
ATOM	1870	CB	GLN	123	-6.676	-8.571	11.106	1.00	0.00
ATOM	1871	CG	GLN	123	-6.218	-7.444	10.196	1.00	0.00
ATOM	1872	CD	GLN	123	-5.949	-7.917	8.782	1.00	0.00
ATOM	1873	OE1	GLN	123	-6.615	-8.821	8.277	1.00	0.00
ATOM	1874	NE2	GLN	123	-4.972	-7.310	8.131	1.00	0.00
ATOM	1877	H	GLN	123	-6.416	-10.148	13.057	1.00	0.00
ATOM	1878	HA	GLN	123	-6.180	-7.356	12.804	1.00	0.00
ATOM	1879	1HB	GLN	123	-7.611	-8.956	10.723	1.00	0.00
ATOM	1880	2HB	GLN	123	-5.936	-9.357	11.071	1.00	0.00
ATOM	1881	1HG	GLN	123	-5.309	-7.021	10.598	1.00	0.00
ATOM	1882	2HG	GLN	123	-6.986	-6.687	10.167	1.00	0.00
ATOM	1883	1HE2	GLN	123	-4.482	-6.598	8.592	1.00	0.00
ATOM	1884	2HE2	GLN	123	-4.776	-7.600	7.215	1.00	0.00
ATOM	1885	N	GLU	124	-9.269	-8.520	12.807	1.00	0.00
ATOM	1886	CA	GLU	124	-10.658	-8.125	13.000	1.00	0.00
ATOM	1892	C	GLU	124	-10.916	-7.707	14.444	1.00	0.00
ATOM	1893	O	GLU	124	-11.669	-6.764	14.678	1.00	0.00
ATOM	1887	CB	GLU	124	-11.617	-9.239	12.584	1.00	0.00
ATOM	1888	CG	GLU	124	-11.325	-10.565	13.243	1.00	0.00
ATOM	1889	CD	GLU	124	-12.294	-11.654	12.843	1.00	0.00
ATOM	1890	OE1	GLU	124	-12.890	-11.551	11.750	1.00	0.00
ATOM	1891	OE2	GLU	124	-12.455	-12.626	13.613	1.00	0.00
ATOM	1894	H	GLU	124	-9.046	-9.474	12.706	1.00	0.00
ATOM	1895	HA	GLU	124	-10.835	-7.268	12.367	1.00	0.00
ATOM	1896	1HB	GLU	124	-11.555	-9.371	11.513	1.00	0.00



ATOM	1897	2HB	GLU	124	-12.625	-8.947	12.844	1.00	0.00
ATOM	1898	1HG	GLU	124	-11.365	-10.432	14.316	1.00	0.00
ATOM	1899	2HG	GLU	124	-10.329	-10.874	12.961	1.00	0.00
ATOM	1900	N	TRP	125	-10.279	-8.381	15.415	1.00	0.00
ATOM	1901	CA	TRP	125	-10.457	-8.014	16.823	1.00	0.00
ATOM	1912	C	TRP	125	-10.071	-6.555	16.997	1.00	0.00
ATOM	1913	O	TRP	125	-10.693	-5.804	17.753	1.00	0.00
ATOM	1902	CB	TRP	125	-9.562	-8.841	17.771	1.00	0.00
ATOM	1903	CG	TRP	125	-9.672	-10.339	17.688	1.00	0.00
ATOM	1904	CD1	TRP	125	-10.687	-11.094	17.165	1.00	0.00
ATOM	1905	CD2	TRP	125	-8.692	-11.265	18.170	1.00	0.00
ATOM	1906	NE1	TRP	125	-10.376	-12.435	17.276	1.00	0.00
ATOM	1907	CE2	TRP	125	-9.155	-12.560	17.883	1.00	0.00
ATOM	1908	CE3	TRP	125	-7.458	-11.115	18.809	1.00	0.00
ATOM	1909	CZ2	TRP	125	-8.421	-13.701	18.210	1.00	0.00
ATOM	1910	CZ3	TRP	125	-6.735	-12.244	19.137	1.00	0.00
ATOM	1911	CH2	TRP	125	-7.213	-13.524	18.832	1.00	0.00
ATOM	1914	H	TRP	125	-9.667	-9.124	15.178	1.00	0.00
ATOM	1915	HA	TRP	125	-11.496	-8.142	17.083	1.00	0.00
ATOM	1916	1HB	TRP	125	-9.777	-8.554	18.785	1.00	0.00
ATOM	1917	2HB	TRP	125	-8.535	-8.592	17.563	1.00	0.00
ATOM	1918	HD1	TRP	125	-11.586	-10.691	16.728	1.00	0.00
ATOM	1919	HE1	TRP	125	-10.938	-13.180	16.969	1.00	0.00
ATOM	1920	HE3	TRP	125	-7.076	-10.135	19.067	1.00	0.00
ATOM	1921	HZ2	TRP	125	-8.775	-14.695	17.980	1.00	0.00
ATOM	1922	HZ3	TRP	125	-5.778	-12.146	19.627	1.00	0.00
ATOM	1923	HH2	TRP	125	-6.613	-14.380	19.117	1.00	0.00
ATOM	1924	N	MET	126	-9.025	-6.172	16.282	1.00	0.00
ATOM	1925	CA	MET	126	-8.511	-4.813	16.340	1.00	0.00
ATOM	1930	C	MET	126	-9.421	-3.838	15.610	1.00	0.00
ATOM	1931	O	MET	126	-9.844	-2.832	16.181	1.00	0.00
ATOM	1926	CB	MET	126	-7.102	-4.764	15.749	1.00	0.00
ATOM	1927	CG	MET	126	-6.313	-3.526	16.142	1.00	0.00
ATOM	1928	SD	MET	126	-5.265	-2.926	14.801	1.00	0.00
ATOM	1929	CE	MET	126	-4.119	-4.290	14.623	1.00	0.00
ATOM	1932	H	MET	126	-8.580	-6.836	15.698	1.00	0.00
ATOM	1933	HA	MET	126	-8.467	-4.523	17.377	1.00	0.00
ATOM	1934	1HB	MET	126	-7.177	-4.788	14.672	1.00	0.00
ATOM	1935	2HB	MET	126	-6.554	-5.631	16.082	1.00	0.00
ATOM	1936	1HG	MET	126	-5.688	-3.766	16.990	1.00	0.00
ATOM	1937	2HG	MET	126	-7.006	-2.745	16.416	1.00	0.00
ATOM	1938	1HE	MET	126	-3.119	-3.954	14.854	1.00	0.00
ATOM	1939	2HE	MET	126	-4.151	-4.657	13.607	1.00	0.00
ATOM	1940	3HE	MET	126	-4.397	-5.085	15.301	1.00	0.00
ATOM	1941	N	VAL	127	-9.715	-4.125	14.349	1.00	0.00
ATOM	1942	CA	VAL	127	-10.564	-3.244	13.559	1.00	0.00
ATOM	1946	C	VAL	127	-11.965	-3.110	14.166	1.00	0.00
ATOM	1947	O	VAL	127	-12.595	-2.061	14.040	1.00	0.00
ATOM	1943	CB	VAL	127	-10.644	-3.681	12.073	1.00	0.00
ATOM	1944	CG1	VAL	127	-11.669	-4.785	11.856	1.00	0.00
ATOM	1945	CG2	VAL	127	-10.954	-2.481	11.186	1.00	0.00
ATOM	1948	H	VAL	127	-9.342	-4.940	13.940	1.00	0.00
ATOM	1949	HA	VAL	127	-10.102	-2.266	13.584	1.00	0.00
ATOM	1950	HB	VAL	127	-9.675	-4.063	11.783	1.00	0.00
ATOM	1951	1HG1	VAL	127	-11.164	-5.737	11.791	1.00	0.00
ATOM	1952	2HG1	VAL	127	-12.208	-4.599	10.939	1.00	0.00
ATOM	1953	3HG1	VAL	127	-12.363	-4.800	12.685	1.00	0.00
ATOM	1954	1HG2	VAL	127	-10.443	-1.610	11.568	1.00	0.00
ATOM	1955	2HG2	VAL	127	-12.019	-2.302	11.182	1.00	0.00
ATOM	1956	3HG2	VAL	127	-10.619	-2.682	10.179	1.00	0.00
ATOM	1957	N	GLU	128	-12.446	-4.154	14.844	1.00	0.00
ATOM	1958	CA	GLU	128	-13.764	-4.098	15.464	1.00	0.00
ATOM	1964	C	GLU	128	-13.753	-3.133	16.637	1.00	0.00
ATOM	1965	O	GLU	128	-14.602	-2.247	16.732	1.00	0.00
ATOM	1959	CB	GLU	128	-14.217	-5.487	15.925	1.00	0.00
ATOM	1960	CG	GLU	128	-15.719	-5.700	15.825	1.00	0.00
ATOM	1961	CD	GLU	128	-16.250	-6.638	16.892	1.00	0.00
ATOM	1962	OE1	GLU	128	-16.403	-6.202	18.052	1.00	0.00
ATOM	1963	OE2	GLU	128	-16.515	-7.819	16.573	1.00	0.00
ATOM	1966	H	GLU	128	-11.902	-4.974	14.937	1.00	0.00
ATOM	1967	HA	GLU	128	-14.454	-3.727	14.727	1.00	0.00
ATOM	1968	1HB	GLU	128	-13.922	-5.627	16.955	1.00	0.00
ATOM	1969	2HB	GLU	128	-13.728	-6.233	15.315	1.00	0.00



ATOM	1970	1HG	GLU	128	-15.947	-6.117	14.855	1.00	0.00
ATOM	1971	2HG	GLU	128	-16.213	-4.745	15.930	1.00	0.00
ATOM	1972	N	TYR	129	-12.777	-3.294	17.518	1.00	0.00
ATOM	1973	CA	TYR	129	-12.647	-2.425	18.678	1.00	0.00
ATOM	1982	C	TYR	129	-12.417	-0.982	18.244	1.00	0.00
ATOM	1983	O	TYR	129	-12.862	-0.033	18.898	1.00	0.00
ATOM	1974	CB	TYR	129	-11.476	-2.876	19.551	1.00	0.00
ATOM	1975	CG	TYR	129	-11.612	-2.440	20.991	1.00	0.00
ATOM	1976	CD1	TYR	129	-12.312	-3.210	21.913	1.00	0.00
ATOM	1977	CD2	TYR	129	-11.057	-1.243	21.422	1.00	0.00
ATOM	1978	CE1	TYR	129	-12.451	-2.797	23.225	1.00	0.00
ATOM	1979	CE2	TYR	129	-11.197	-0.822	22.728	1.00	0.00
ATOM	1980	CZ	TYR	129	-11.893	-1.601	23.625	1.00	0.00
ATOM	1981	OH	TYR	129	-12.043	-1.169	24.922	1.00	0.00
ATOM	1984	H	TYR	129	-12.119	-4.012	17.381	1.00	0.00
ATOM	1985	HA	TYR	129	-13.561	-2.483	19.249	1.00	0.00
ATOM	1986	1HB	TYR	129	-10.564	-2.450	19.161	1.00	0.00
ATOM	1987	2HB	TYR	129	-11.402	-3.952	19.523	1.00	0.00
ATOM	1988	HD1	TYR	129	-10.511	-0.635	20.716	1.00	0.00
ATOM	1989	HD2	TYR	129	-12.747	-4.145	21.594	1.00	0.00
ATOM	1990	HE1	TYR	129	-10.756	0.113	23.042	1.00	0.00
ATOM	1991	HE2	TYR	129	-12.997	-3.408	23.928	1.00	0.00
ATOM	1992	HH	TYR	129	-12.340	-1.908	25.484	1.00	0.00
ATOM	1993	N	LEU	130	-11.705	-0.832	17.145	1.00	0.00
ATOM	1994	CA	LEU	130	-11.380	0.483	16.618	1.00	0.00
ATOM	1999	C	LEU	130	-12.595	1.173	16.005	1.00	0.00
ATOM	2000	O	LEU	130	-12.933	2.288	16.384	1.00	0.00
ATOM	1995	CB	LEU	130	-10.272	0.376	15.578	1.00	0.00
ATOM	1996	CG	LEU	130	-8.902	0.867	16.040	1.00	0.00
ATOM	1997	CD1	LEU	130	-7.844	-0.196	15.803	1.00	0.00
ATOM	1998	CD2	LEU	130	-8.535	2.156	15.325	1.00	0.00
ATOM	2001	H	LEU	130	-11.374	-1.637	16.678	1.00	0.00
ATOM	2002	HA	LEU	130	-11.020	1.086	17.441	1.00	0.00
ATOM	2003	1HB	LEU	130	-10.569	0.960	14.723	1.00	0.00
ATOM	2004	2HB	LEU	130	-10.181	-0.660	15.279	1.00	0.00
ATOM	2005	HG	LEU	130	-8.938	1.070	17.101	1.00	0.00
ATOM	2006	1HD1	LEU	130	-7.092	-0.134	16.576	1.00	0.00
ATOM	2007	2HD1	LEU	130	-7.383	-0.036	14.838	1.00	0.00
ATOM	2008	3HD1	LEU	130	-8.303	-1.174	15.824	1.00	0.00
ATOM	2009	1HD2	LEU	130	-7.484	2.141	15.073	1.00	0.00
ATOM	2010	2HD2	LEU	130	-8.738	2.996	15.971	1.00	0.00
ATOM	2011	3HD2	LEU	130	-9.121	2.246	14.422	1.00	0.00
ATOM	2012	N	GLU	131	-13.234	0.521	15.047	1.00	0.00
ATOM	2013	CA	GLU	131	-14.394	1.100	14.372	1.00	0.00
ATOM	2019	C	GLU	131	-15.542	1.381	15.339	1.00	0.00
ATOM	2020	O	GLU	131	-16.292	2.340	15.162	1.00	0.00
ATOM	2014	CB	GLU	131	-14.871	0.168	13.259	1.00	0.00
ATOM	2015	CG	GLU	131	-13.944	0.136	12.056	1.00	0.00
ATOM	2016	CD	GLU	131	-14.681	0.321	10.746	1.00	0.00
ATOM	2017	OE1	GLU	131	-15.931	0.249	10.740	1.00	0.00
ATOM	2018	OE2	GLU	131	-14.013	0.538	9.713	1.00	0.00
ATOM	2021	H	GLU	131	-12.912	-0.366	14.769	1.00	0.00
ATOM	2022	HA	GLU	131	-14.082	2.032	13.931	1.00	0.00
ATOM	2023	1HB	GLU	131	-15.846	0.493	12.927	1.00	0.00
ATOM	2024	2HB	GLU	131	-14.949	-0.833	13.654	1.00	0.00
ATOM	2025	1HG	GLU	131	-13.436	-0.817	12.035	1.00	0.00
ATOM	2026	2HG	GLU	131	-13.216	0.928	12.156	1.00	0.00
ATOM	2027	N	THR	132	-15.690	0.534	16.343	1.00	0.00
ATOM	2028	CA	THR	132	-16.767	0.685	17.310	1.00	0.00
ATOM	2032	C	THR	132	-16.485	1.756	18.371	1.00	0.00
ATOM	2033	O	THR	132	-17.391	2.493	18.753	1.00	0.00
ATOM	2029	CB	THR	132	-17.069	-0.655	18.009	1.00	0.00
ATOM	2030	OG1	THR	132	-17.153	-1.702	17.034	1.00	0.00
ATOM	2031	CG2	THR	132	-18.373	-0.588	18.791	1.00	0.00
ATOM	2034	H	THR	132	-15.073	-0.224	16.424	1.00	0.00
ATOM	2035	HA	THR	132	-17.652	0.974	16.763	1.00	0.00
ATOM	2036	HB	THR	132	-16.263	-0.875	18.696	1.00	0.00
ATOM	2037	HG1	THR	132	-16.271	-2.064	16.874	1.00	0.00
ATOM	2038	1HG2	THR	132	-19.203	-0.758	18.121	1.00	0.00
ATOM	2039	2HG2	THR	132	-18.470	0.387	19.246	1.00	0.00
ATOM	2040	3HG2	THR	132	-18.370	-1.346	19.561	1.00	0.00
ATOM	2041	N	ARG	133	-15.256	1.834	18.880	1.00	0.00
ATOM	2042	CA	ARG	133	-14.963	2.816	19.927	1.00	0.00



ATOM	2050	C	ARG	133	-13.853	3.803	19.571	1.00	0.00
ATOM	2051	O	ARG	133	-13.975	4.990	19.866	1.00	0.00
ATOM	2043	CB	ARG	133	-14.611	2.124	21.250	1.00	0.00
ATOM	2044	CG	ARG	133	-15.203	0.734	21.427	1.00	0.00
ATOM	2045	CD	ARG	133	-15.060	0.263	22.866	1.00	0.00
ATOM	2046	NE	ARG	133	-15.949	-0.855	23.174	1.00	0.00
ATOM	2047	CZ	ARG	133	-15.834	-1.620	24.261	1.00	0.00
ATOM	2048	NH1	ARG	133	-14.866	-1.392	25.140	1.00	0.00
ATOM	2049	NH2	ARG	133	-16.684	-2.617	24.458	1.00	0.00
ATOM	2052	H	ARG	133	-14.557	1.216	18.576	1.00	0.00
ATOM	2053	HA	ARG	133	-15.866	3.387	20.079	1.00	0.00
ATOM	2054	1HB	ARG	133	-14.960	2.744	22.063	1.00	0.00
ATOM	2055	2HB	ARG	133	-13.537	2.038	21.316	1.00	0.00
ATOM	2056	1HG	ARG	133	-14.685	0.045	20.777	1.00	0.00
ATOM	2057	2HG	ARG	133	-16.252	0.761	21.168	1.00	0.00
ATOM	2058	1HD	ARG	133	-15.293	1.087	23.525	1.00	0.00
ATOM	2059	2HD	ARG	133	-14.039	-0.048	23.028	1.00	0.00
ATOM	2060	HE	ARG	133	-16.671	-1.045	22.536	1.00	0.00
ATOM	2061	1HH1	ARG	133	-14.217	-0.643	24.997	1.00	0.00
ATOM	2062	2HH1	ARG	133	-14.765	-1.981	25.953	1.00	0.00
ATOM	2063	1HH2	ARG	133	-17.412	-2.800	23.787	1.00	0.00
ATOM	2064	2HH2	ARG	133	-16.611	-3.187	25.281	1.00	0.00
ATOM	2065	N	LEU	134	-12.763	3.334	18.971	1.00	0.00
ATOM	2066	CA	LEU	134	-11.655	4.229	18.637	1.00	0.00
ATOM	2071	C	LEU	134	-12.109	5.340	17.697	1.00	0.00
ATOM	2072	O	LEU	134	-11.787	6.508	17.912	1.00	0.00
ATOM	2067	CB	LEU	134	-10.497	3.451	18.019	1.00	0.00
ATOM	2068	CG	LEU	134	-9.290	3.233	18.932	1.00	0.00
ATOM	2069	CD1	LEU	134	-8.668	4.565	19.327	1.00	0.00
ATOM	2070	CD2	LEU	134	-9.688	2.439	20.165	1.00	0.00
ATOM	2073	H	LEU	134	-12.692	2.376	18.762	1.00	0.00
ATOM	2074	HA	LEU	134	-11.316	4.681	19.558	1.00	0.00
ATOM	2075	1HB	LEU	134	-10.164	3.981	17.140	1.00	0.00
ATOM	2076	2HB	LEU	134	-10.867	2.485	17.717	1.00	0.00
ATOM	2077	HG	LEU	134	-8.547	2.663	18.394	1.00	0.00
ATOM	2078	1HD1	LEU	134	-9.444	5.310	19.428	1.00	0.00
ATOM	2079	2HD1	LEU	134	-7.969	4.875	18.565	1.00	0.00
ATOM	2080	3HD1	LEU	134	-8.151	4.456	20.268	1.00	0.00
ATOM	2081	1HD2	LEU	134	-9.716	3.096	21.022	1.00	0.00
ATOM	2082	2HD2	LEU	134	-8.965	1.655	20.336	1.00	0.00
ATOM	2083	3HD2	LEU	134	-10.664	2.004	20.014	1.00	0.00
ATOM	2084	N	ALA	135	-12.859	4.968	16.663	1.00	0.00
ATOM	2085	CA	ALA	135	-13.373	5.922	15.695	1.00	0.00
ATOM	2087	C	ALA	135	-14.087	7.083	16.383	1.00	0.00
ATOM	2088	O	ALA	135	-13.937	8.229	15.968	1.00	0.00
ATOM	2086	CB	ALA	135	-14.308	5.228	14.716	1.00	0.00
ATOM	2089	H	ALA	135	-13.075	4.018	16.548	1.00	0.00
ATOM	2090	HA	ALA	135	-12.535	6.314	15.137	1.00	0.00
ATOM	2091	1HB	ALA	135	-14.477	5.868	13.862	1.00	0.00
ATOM	2092	2HB	ALA	135	-15.249	5.020	15.203	1.00	0.00
ATOM	2093	3HB	ALA	135	-13.861	4.301	14.387	1.00	0.00
ATOM	2094	N	ASP	136	-14.843	6.793	17.444	1.00	0.00
ATOM	2095	CA	ASP	136	-15.549	7.847	18.171	1.00	0.00
ATOM	2100	C	ASP	136	-14.563	8.855	18.734	1.00	0.00
ATOM	2101	O	ASP	136	-14.660	10.049	18.440	1.00	0.00
ATOM	2096	CB	ASP	136	-16.406	7.275	19.300	1.00	0.00
ATOM	2097	CG	ASP	136	-17.169	8.361	20.035	1.00	0.00
ATOM	2098	OD1	ASP	136	-16.604	8.973	20.965	1.00	0.00
ATOM	2099	OD2	ASP	136	-18.336	8.622	19.676	1.00	0.00
ATOM	2102	H	ASP	136	-14.917	5.861	17.750	1.00	0.00
ATOM	2103	HA	ASP	136	-16.188	8.358	17.465	1.00	0.00
ATOM	2104	1HB	ASP	136	-15.768	6.766	20.006	1.00	0.00
ATOM	2105	2HB	ASP	136	-17.116	6.575	18.888	1.00	0.00
ATOM	2106	N	TRP	137	-13.601	8.375	19.522	1.00	0.00
ATOM	2107	CA	TRP	137	-12.591	9.247	20.095	1.00	0.00
ATOM	2118	C	TRP	137	-11.883	10.015	18.985	1.00	0.00
ATOM	2119	O	TRP	137	-11.687	11.227	19.075	1.00	0.00
ATOM	2108	CB	TRP	137	-11.577	8.421	20.901	1.00	0.00
ATOM	2109	CG	TRP	137	-10.450	9.235	21.466	1.00	0.00
ATOM	2110	CD1	TRP	137	-10.357	9.733	22.730	1.00	0.00
ATOM	2111	CD2	TRP	137	-9.257	9.642	20.786	1.00	0.00
ATOM	2112	NE1	TRP	137	-9.186	10.435	22.876	1.00	0.00
ATOM	2113	CE2	TRP	137	-8.496	10.393	21.695	1.00	0.00



ATOM	2114	CE3	TRP	137	-8.762	9.447	19.494	1.00	0.00
ATOM	2115	CZ2	TRP	137	-7.270	10.946	21.352	1.00	0.00
ATOM	2116	CZ3	TRP	137	-7.546	9.998	19.157	1.00	0.00
ATOM	2117	CH2	TRP	137	-6.811	10.740	20.084	1.00	0.00
ATOM	2120	H	TRP	137	-13.561	7.409	19.712	1.00	0.00
ATOM	2121	HA	TRP	137	-13.083	9.951	20.749	1.00	0.00
ATOM	2122	1HB	TRP	137	-11.152	7.661	20.261	1.00	0.00
ATOM	2123	2HB	TRP	137	-12.085	7.943	21.726	1.00	0.00
ATOM	2124	HD1	TRP	137	-11.102	9.587	23.493	1.00	0.00
ATOM	2125	HE1	TRP	137	-8.893	10.892	23.692	1.00	0.00
ATOM	2126	HE3	TRP	137	-9.317	8.876	18.765	1.00	0.00
ATOM	2127	HZ2	TRP	137	-6.689	11.514	22.055	1.00	0.00
ATOM	2128	HZ3	TRP	137	-7.149	9.858	18.163	1.00	0.00
ATOM	2129	HH2	TRP	137	-5.863	11.155	19.777	1.00	0.00
ATOM	2130	N	ILE	138	-11.504	9.292	17.939	1.00	0.00
ATOM	2131	CA	ILE	138	-10.807	9.877	16.806	1.00	0.00
ATOM	2136	C	ILE	138	-11.622	10.998	16.157	1.00	0.00
ATOM	2137	O	ILE	138	-11.097	12.084	15.909	1.00	0.00
ATOM	2132	CB	ILE	138	-10.442	8.786	15.762	1.00	0.00
ATOM	2133	CG1	ILE	138	-9.046	8.232	16.054	1.00	0.00
ATOM	2134	CG2	ILE	138	-10.506	9.320	14.338	1.00	0.00
ATOM	2135	CD1	ILE	138	-9.013	6.732	16.238	1.00	0.00
ATOM	2138	H	ILE	138	-11.694	8.326	17.936	1.00	0.00
ATOM	2139	HA	ILE	138	-9.885	10.299	17.177	1.00	0.00
ATOM	2140	HB	ILE	138	-11.160	7.983	15.848	1.00	0.00
ATOM	2141	1HG1	ILE	138	-8.670	8.686	16.959	1.00	0.00
ATOM	2142	2HG1	ILE	138	-8.389	8.478	15.234	1.00	0.00
ATOM	2143	1RG2	ILE	138	-10.284	8.523	13.642	1.00	0.00
ATOM	2144	2HG2	ILE	138	-9.784	10.114	14.218	1.00	0.00
ATOM	2145	3HG2	ILE	138	-11.497	9.702	14.143	1.00	0.00
ATOM	2146	1HD1	ILE	138	-9.767	6.441	16.955	1.00	0.00
ATOM	2147	2HD1	ILE	138	-8.038	6.434	16.600	1.00	0.00
ATOM	2148	3HD1	ILE	138	-9.209	6.247	15.293	1.00	0.00
ATOM	2149	N	HIS	139	-12.901	10.744	15.891	1.00	0.00
ATOM	2150	CA	HIS	139	-13.759	11.750	15.263	1.00	0.00
ATOM	2157	C	HIS	139	-13.975	12.950	16.183	1.00	0.00
ATOM	2158	O	HIS	139	-14.131	14.076	15.714	1.00	0.00
ATOM	2151	CB	HIS	139	-15.118	11.159	14.861	1.00	0.00
ATOM	2152	CG	HIS	139	-15.084	10.341	13.602	1.00	0.00
ATOM	2153	ND1	HIS	139	-15.165	10.887	12.340	1.00	0.00
ATOM	2154	CD2	HIS	139	-14.988	9.005	13.419	1.00	0.00
ATOM	2155	CE1	HIS	139	-15.114	9.919	11.442	1.00	0.00
ATOM	2156	NE2	HIS	139	-15.012	8.764	12.069	1.00	0.00
ATOM	2159	H	HIS	139	-13.276	9.858	16.121	1.00	0.00
ATOM	2160	HA	HIS	139	-13.255	12.092	14.372	1.00	0.00
ATOM	2161	1HB	HIS	139	-15.820	11.967	14.714	1.00	0.00
ATOM	2162	2HB	HIS	139	-15.474	10.524	15.658	1.00	0.00
ATOM	2163	HD1	HIS	139	-15.279	11.841	12.130	1.00	0.00
ATOM	2164	HD2	HIS	139	-14.908	8.259	14.198	1.00	0.00
ATOM	2165	HE1	HIS	139	-15.129	10.051	10.372	1.00	0.00
ATOM	2166	HE2	HIS	139	-15.268	7.898	11.667	1.00	0.00
ATOM	2167	N	SER	140	-13.993	12.704	17.486	1.00	0.00
ATOM	2168	CA	SER	140	-14.207	13.772	18.460	1.00	0.00
ATOM	2171	C	SER	140	-12.912	14.521	18.801	1.00	0.00
ATOM	2172	O	SER	140	-12.950	15.566	19.449	1.00	0.00
ATOM	2169	CB	SER	140	-14.827	13.196	19.735	1.00	0.00
ATOM	2170	OG	SER	140	-15.820	12.226	19.430	1.00	0.00
ATOM	2173	H	SER	140	-13.873	11.781	17.803	1.00	0.00
ATOM	2174	HA	SER	140	-14.903	14.473	18.025	1.00	0.00
ATOM	2175	1HB	SER	140	-15.283	13.994	20.304	1.00	0.00
ATOM	2176	2HB	SER	140	-14.055	12.729	20.330	1.00	0.00
ATOM	2177	HG	SER	140	-15.392	11.423	19.097	1.00	0.00
ATOM	2178	N	SER	141	-11.770	13.982	18.390	1.00	0.00
ATOM	2179	CA	SER	141	-10.487	14.618	18.690	1.00	0.00
ATOM	2182	C	SER	141	-9.995	15.499	17.545	1.00	0.00
ATOM	2183	O	SER	141	-9.613	16.650	17.756	1.00	0.00
ATOM	2180	CB	SER	141	-9.432	13.565	19.031	1.00	0.00
ATOM	2181	OG	SER	141	-8.760	13.892	20.235	1.00	0.00
ATOM	2184	H	SER	141	-11.786	13.134	17.897	1.00	0.00
ATOM	2185	HA	SER	141	-10.634	15.242	19.548	1.00	0.00
ATOM	2186	1HB	SER	141	-8.708	13.511	18.231	1.00	0.00
ATOM	2187	2HB	SER	141	-9.910	12.606	19.149	1.00	0.00
ATOM	2188	HG	SER	141	-8.163	14.636	20.076	1.00	0.00



ATOM	2189	N	GLY	142	-9.999	14.953	16.346	1.00	0.00
ATOM	2190	CA	GLY	142	-9.536	15.697	15.188	1.00	0.00
ATOM	2191	C	GLY	142	-9.551	14.839	13.953	1.00	0.00
ATOM	2192	O	GLY	142	-9.535	15.335	12.826	1.00	0.00
ATOM	2193	H	GLY	142	-10.310	14.032	16.241	1.00	0.00
ATOM	2194	1HA	GLY	142	-8.528	16.035	15.367	1.00	0.00
ATOM	2195	2HA	GLY	142	-10.174	16.552	15.032	1.00	0.00
ATOM	2196	N	GLY	143	-9.601	13.539	14.175	1.00	0.00
ATOM	2197	CA	GLY	143	-9.637	12.601	13.078	1.00	0.00
ATOM	2198	C	GLY	143	-8.282	12.054	12.728	1.00	0.00
ATOM	2199	O	GLY	143	-7.261	12.541	13.212	1.00	0.00
ATOM	2200	H	GLY	143	-9.625	13.214	15.104	1.00	0.00
ATOM	2201	1HA	GLY	143	-10.042	13.093	12.213	1.00	0.00
ATOM	2202	2HA	GLY	143	-10.276	11.784	13.343	1.00	0.00
ATOM	2203	N	TRP	144	-8.274	11.051	11.866	1.00	0.00
ATOM	2204	CA	TRP	144	-7.040	10.433	11.419	1.00	0.00
ATOM	2215	C	TRP	144	-6.177	11.474	10.726	1.00	0.00
ATOM	2216	O	TRP	144	-4.950	11.421	10.787	1.00	0.00
ATOM	2205	CB	TRP	144	-7.350	9.264	10.482	1.00	0.00
ATOM	2206	CG	TRP	144	-8.134	8.167	11.147	1.00	0.00
ATOM	2207	CD1	TRP	144	-9.495	8.009	11.156	1.00	0.00
ATOM	2208	CD2	TRP	144	-7.600	7.078	11.904	1.00	0.00
ATOM	2209	NE1	TRP	144	-9.836	6.889	11.882	1.00	0.00
ATOM	2210	CE2	TRP	144	-8.689	6.299	12.346	1.00	0.00
ATOM	2211	CE3	TRP	144	-6.307	6.683	12.251	1.00	0.00
ATOM	2212	CZ2	TRP	144	-8.518	5.154	13.116	1.00	0.00
ATOM	2213	CZ3	TRP	144	-6.141	5.546	13.015	1.00	0.00
ATOM	2214	CH2	TRP	144	-7.241	4.793	13.440	1.00	0.00
ATOM	2217	H	TRP	144	-9.124	10.724	11.504	1.00	0.00
ATOM	2218	HA	TRP	144	-6.513	10.066	12.287	1.00	0.00
ATOM	2219	1HB	TRP	144	-6.422	8.841	10.122	1.00	0.00
ATOM	2220	2HB	TRP	144	-7.925	9.625	9.643	1.00	0.00
ATOM	2221	HD1	TRP	144	-10.189	8.678	10.669	1.00	0.00
ATOM	2222	HE1	TRP	144	-10.754	6.561	12.040	1.00	0.00
ATOM	2223	HE3	TRP	144	-5.446	7.252	11.931	1.00	0.00
ATOM	2224	HZ2	TRP	144	-9.357	4.561	13.453	1.00	0.00
ATOM	2225	HZ3	TRP	144	-5.143	5.224	13.293	1.00	0.00
ATOM	2226	HH2	TRP	144	-7.063	3.911	14.037	1.00	0.00
ATOM	2227	N	ALA	145	-6.845	12.444	10.102	1.00	0.00
ATOM	2228	CA	ALA	145	-6.172	13.536	9.415	1.00	0.00
ATOM	2230	C	ALA	145	-5.339	14.361	10.394	1.00	0.00
ATOM	2231	O	ALA	145	-4.264	14.847	10.044	1.00	0.00
ATOM	2229	CB	ALA	145	-7.186	14.420	8.704	1.00	0.00
ATOM	2232	H	ALA	145	-7.828	12.429	10.123	1.00	0.00
ATOM	2233	HA	ALA	145	-5.516	13.107	8.670	1.00	0.00
ATOM	2234	1HB	ALA	145	-8.023	13.818	8.379	1.00	0.00
ATOM	2235	2HB	ALA	145	-6.722	14.882	7.846	1.00	0.00
ATOM	2236	3HB	ALA	145	-7.535	15.184	9.381	1.00	0.00
ATOM	2237	N	GLU	146	-5.827	14.498	11.629	1.00	0.00
ATOM	2238	CA	GLU	146	-5.099	15.250	12.647	1.00	0.00
ATOM	2244	C	GLU	146	-3.789	14.527	12.969	1.00	0.00
ATOM	2245	O	GLU	146	-2.731	15.143	13.082	1.00	0.00
ATOM	2239	CB	GLU	146	-5.965	15.434	13.907	1.00	0.00
ATOM	2240	CG	GLU	146	-5.211	15.295	15.220	1.00	0.00
ATOM	2241	CD	GLU	146	-5.828	16.108	16.338	1.00	0.00
ATOM	2242	OE1	GLU	146	-6.334	17.214	16.060	1.00	0.00
ATOM	2243	OE2	GLU	146	-5.811	15.638	17.497	1.00	0.00
ATOM	2246	H	GLU	146	-6.686	14.068	11.864	1.00	0.00
ATOM	2247	HA	GLU	146	-4.864	16.221	12.234	1.00	0.00
ATOM	2248	1HB	GLU	146	-6.764	14.706	13.895	1.00	0.00
ATOM	2249	2HB	GLU	146	-6.398	16.419	13.880	1.00	0.00
ATOM	2250	1HG	GLU	146	-4.192	15.626	15.073	1.00	0.00
ATOM	2251	2HG	GLU	146	-5.210	14.254	15.511	1.00	0.00
ATOM	2252	N	PHE	147	-3.877	13.210	13.075	1.00	0.00
ATOM	2253	CA	PHE	147	-2.718	12.367	13.351	1.00	0.00
ATOM	2261	C	PHE	147	-1.736	12.413	12.182	1.00	0.00
ATOM	2262	O	PHE	147	-0.520	12.366	12.383	1.00	0.00
ATOM	2254	CB	PHE	147	-3.184	10.931	13.621	1.00	0.00
ATOM	2255	CG	PHE	147	-2.098	9.975	14.037	1.00	0.00
ATOM	2256	CD1	PHE	147	-0.992	10.407	14.753	1.00	0.00
ATOM	2257	CD2	PHE	147	-2.191	8.634	13.702	1.00	0.00
ATOM	2258	CE1	PHE	147	0.000	9.518	15.124	1.00	0.00
ATOM	2259	CE2	PHE	147	-1.204	7.743	14.072	1.00	0.00



ATOM	2260	CZ	PHE	147	-0.107	8.184	14.781	1.00	0.00
ATOM	2263	H	PHE	147	-4.753	12.788	12.948	1.00	0.00
ATOM	2264	HA	PHE	147	-2.218	12.753	14.230	1.00	0.00
ATOM	2265	1HB	PHE	147	-3.641	10.540	12.722	1.00	0.00
ATOM	2266	2HB	PHE	147	-3.921	10.946	14.409	1.00	0.00
ATOM	2267	HD1	PHE	147	-0.908	11.450	15.021	1.00	0.00
ATOM	2268	HD2	PHE	147	-3.048	8.286	13.147	1.00	0.00
ATOM	2269	HE1	PHE	147	0.856	9.866	15.683	1.00	0.00
ATOM	2270	HE2	PHE	147	-1.290	6.700	13.803	1.00	0.00
ATOM	2271	HZ	PHE	147	0.670	7.484	15.064	1.00	0.00
ATOM	2272	N	THR	148	-2.255	12.535	10.963	1.00	0.00
ATOM	2273	CA	THR	148	-1.387	12.614	9.793	1.00	0.00
ATOM	2277	C	THR	148	-0.661	13.952	9.758	1.00	0.00
ATOM	2278	O	THR	148	0.409	14.072	9.176	1.00	0.00
ATOM	2274	CB	THR	148	-2.151	12.423	8.471	1.00	0.00
ATOM	2275	OG1	THR	148	-3.452	11.886	8.717	1.00	0.00
ATOM	2276	CG2	THR	148	-1.386	11.496	7.541	1.00	0.00
ATOM	2279	H	THR	148	-3.231	12.591	10.852	1.00	0.00
ATOM	2280	HA	THR	148	-0.653	11.825	9.876	1.00	0.00
ATOM	2281	HB	THR	148	-2.253	13.382	7.989	1.00	0.00
ATOM	2282	HG1	THR	148	-3.473	11.463	9.582	1.00	0.00
ATOM	2283	1HG2	THR	148	-1.869	10.528	7.521	1.00	0.00
ATOM	2284	2HG2	THR	148	-0.372	11.385	7.896	1.00	0.00
ATOM	2285	3HG2	THR	148	-1.376	11.912	6.545	1.00	0.00
ATOM	2286	N	ALA	149	-1.241	14.954	10.397	1.00	0.00
ATOM	2287	CA	ALA	149	-0.626	16.267	10.449	1.00	0.00
ATOM	2289	C	ALA	149	0.346	16.333	11.616	1.00	0.00
ATOM	2290	O	ALA	149	1.354	17.029	11.561	1.00	0.00
ATOM	2288	CB	ALA	149	-1.683	17.353	10.561	1.00	0.00
ATOM	2291	H	ALA	149	-2.095	14.804	10.856	1.00	0.00
ATOM	2292	HA	ALA	149	-0.076	16.414	9.530	1.00	0.00
ATOM	2293	1HB	ALA	149	-2.587	16.933	10.978	1.00	0.00
ATOM	2294	2HB	ALA	149	-1.892	17.755	9.580	1.00	0.00
ATOM	2295	3HB	ALA	149	-1.323	18.142	11.204	1.00	0.00
ATOM	2296	N	LEU	150	0.021	15.595	12.670	1.00	0.00
ATOM	2297	CA	LEU	150	0.839	15.549	13.873	1.00	0.00
ATOM	2302	C	LEU	150	2.240	15.032	13.578	1.00	0.00
ATOM	2303	O	LEU	150	3.232	15.649	13.963	1.00	0.00
ATOM	2298	CB	LEU	150	0.178	14.657	14.926	1.00	0.00
ATOM	2299	CG	LEU	150	-0.321	15.389	16.172	1.00	0.00
ATOM	2300	CD1	LEU	150	-1.786	15.078	16.424	1.00	0.00
ATOM	2301	CD2	LEU	150	0.517	15.012	17.383	1.00	0.00
ATOM	2304	H	LEU	150	-0.807	15.069	12.640	1.00	0.00
ATOM	2305	HA	LEU	150	0.912	16.552	14.263	1.00	0.00
ATOM	2306	1HB	LEU	150	0.892	13.911	15.237	1.00	0.00
ATOM	2307	2HB	LEU	150	-0.659	14.154	14.464	1.00	0.00
ATOM	2308	HG	LEU	150	-0.228	16.453	16.017	1.00	0.00
ATOM	2309	1HD1	LEU	150	-1.866	14.217	17.071	1.00	0.00
ATOM	2310	2HD1	LEU	150	-2.276	14.868	15.485	1.00	0.00
ATOM	2311	3HD1	LEU	150	-2.259	15.927	16.895	1.00	0.00
ATOM	2312	1HD2	LEU	150	1.062	14.102	17.176	1.00	0.00
ATOM	2313	2HD2	LEU	150	-0.129	14.860	18.235	1.00	0.00
ATOM	2314	3HD2	LEU	150	1.216	15.808	17.599	1.00	0.00
ATOM	2315	N	TYR	151	2.329	13.892	12.911	1.00	0.00
ATOM	2316	CA	TYR	151	3.633	13.315	12.603	1.00	0.00
ATOM	2325	C	TYR	151	3.737	12.885	11.151	1.00	0.00
ATOM	2326	O	TYR	151	4.403	11.901	10.831	1.00	0.00
ATOM	2317	CB	TYR	151	3.916	12.126	13.515	1.00	0.00
ATOM	2318	CG	TYR	151	4.855	12.448	14.657	1.00	0.00
ATOM	2319	CD1	TYR	151	4.467	13.306	15.677	1.00	0.00
ATOM	2320	CD2	TYR	151	6.127	11.892	14.715	1.00	0.00
ATOM	2321	CE1	TYR	151	5.317	13.600	16.723	1.00	0.00
ATOM	2322	CE2	TYR	151	6.983	12.181	15.762	1.00	0.00
ATOM	2323	CZ	TYR	151	6.574	13.036	16.763	1.00	0.00
ATOM	2324	OH	TYR	151	7.420	13.325	17.808	1.00	0.00
ATOM	2327	H	TYR	151	1.504	13.424	12.636	1.00	0.00
ATOM	2328	HA	TYR	151	4.377	14.075	12.788	1.00	0.00
ATOM	2329	1HB	TYR	151	4.358	11.331	12.933	1.00	0.00
ATOM	2330	2HB	TYR	151	2.985	11.783	13.936	1.00	0.00
ATOM	2331	HD1	TYR	151	6.444	11.223	13.930	1.00	0.00
ATOM	2332	HD2	TYR	151	3.482	13.747	15.646	1.00	0.00
ATOM	2333	HE1	TYR	151	7.969	11.738	15.790	1.00	0.00
ATOM	2334	HE2	TYR	151	4.995	14.270	17.508	1.00	0.00



ATOM	2335	HH	TYR	151	6.923	13.739	18.523	1.00	0.00
ATOM	2336	N	GLY	152	3.085	13.621	10.274	1.00	0.00
ATOM	2337	CA	GLY	152	3.134	13.289	8.866	1.00	0.00
ATOM	2338	C	GLY	152	4.054	14.204	8.089	1.00	0.00
ATOM	2339	O	GLY	152	5.217	14.385	8.453	1.00	0.00
ATOM	2340	H	GLY	152	2.567	14.396	10.584	1.00	0.00
ATOM	2341	1HA	GLY	152	2.138	13.364	8.455	1.00	0.00
ATOM	2342	2HA	GLY	152	3.481	12.271	8.758	1.00	0.00
ATOM	2343	N	ASP	153	3.531	14.777	7.014	1.00	0.00
ATOM	2344	CA	ASP	153	4.304	15.677	6.162	1.00	0.00
ATOM	2349	C	ASP	153	4.667	16.959	6.905	1.00	0.00
ATOM	2350	O	ASP	153	5.762	17.498	6.741	1.00	0.00
ATOM	2345	CB	ASP	153	3.511	16.018	4.899	1.00	0.00
ATOM	2346	CG	ASP	153	3.809	15.079	3.748	1.00	0.00
ATOM	2347	OD1	ASP	153	4.876	15.224	3.116	1.00	0.00
ATOM	2348	OD2	ASP	153	2.968	14.199	3.462	1.00	0.00
ATOM	2351	H	ASP	153	2.600	14.583	6.780	1.00	0.00
ATOM	2352	HA	ASP	153	5.213	15.169	5.879	1.00	0.00
ATOM	2353	1HB	ASP	153	3.755	17.025	4.591	1.00	0.00
ATOM	2354	2HB	ASP	153	2.455	15.962	5.119	1.00	0.00
ATOM	2355	N	GLY	154	3.744	17.444	7.725	1.00	0.00
ATOM	2356	CA	GLY	154	3.986	18.657	8.480	1.00	0.00
ATOM	2357	C	GLY	154	4.188	18.389	9.956	1.00	0.00
ATOM	2358	O	GLY	154	3.425	18.866	10.789	1.00	0.00
ATOM	2359	H	GLY	154	2.891	16.972	7.821	1.00	0.00
ATOM	2360	1HA	GLY	154	3.142	19.319	8.357	1.00	0.00
ATOM	2361	2HA	GLY	154	4.869	19.141	8.088	1.00	0.00
ATOM	2362	N	ALA	155	5.225	17.630	10.279	1.00	0.00
ATOM	2363	CA	ALA	155	5.535	17.299	11.661	1.00	0.00
ATOM	2365	C	ALA	155	6.317	18.426	12.320	1.00	0.00
ATOM	2366	O	ALA	155	7.521	18.312	12.558	1.00	0.00
ATOM	2364	CB	ALA	155	6.312	15.992	11.730	1.00	0.00
ATOM	2367	H	ALA	155	5.799	17.290	9.572	1.00	0.00
ATOM	2368	HA	ALA	155	4.601	17.166	12.188	1.00	0.00
ATOM	2369	1HB	ALA	155	7.345	16.199	11.965	1.00	0.00
ATOM	2370	2HB	ALA	155	6.253	15.487	10.777	1.00	0.00
ATOM	2371	3HB	ALA	155	5.886	15.361	12.497	1.00	0.00
ATOM	2372	N	LEU	156	5.623	19.518	12.604	1.00	0.00
ATOM	2373	CA	LEU	156	6.221	20.683	13.230	1.00	0.00
ATOM	2378	C	LEU	156	6.670	20.364	14.654	1.00	0.00
ATOM	2379	O	LEU	156	6.262	19.356	15.233	1.00	0.00
ATOM	2374	CB	LEU	156	5.220	21.840	13.244	1.00	0.00
ATOM	2375	CG	LEU	156	3.760	21.447	13.482	1.00	0.00
ATOM	2376	CD1	LEU	156	3.156	22.289	14.592	1.00	0.00
ATOM	2377	CD2	LEU	156	2.951	21.602	12.205	1.00	0.00
ATOM	2380	H	LEU	156	4.672	19.540	12.378	1.00	0.00
ATOM	2381	HA	LEU	156	7.083	20.969	12.647	1.00	0.00
ATOM	2382	1HB	LEU	156	5.280	22.353	12.296	1.00	0.00
ATOM	2383	2HB	LEU	156	5.513	22.523	14.021	1.00	0.00
ATOM	2384	HG	LEU	156	3.719	20.409	13.788	1.00	0.00
ATOM	2385	1HD1	LEU	156	3.860	22.366	15.408	1.00	0.00
ATOM	2386	2HD1	LEU	156	2.247	21.825	14.941	1.00	0.00
ATOM	2387	3HD1	LEU	156	2.935	23.277	14.213	1.00	0.00
ATOM	2388	1HD2	LEU	156	3.238	22.517	11.705	1.00	0.00
ATOM	2389	2HD2	LEU	156	1.899	21.640	12.447	1.00	0.00
ATOM	2390	3HD2	LEU	156	3.140	20.761	11.553	1.00	0.00
ATOM	2391	N	GLU	157	7.511	21.227	15.211	1.00	0.00
ATOM	2392	CA	GLU	157	8.029	21.044	16.560	1.00	0.00
ATOM	2398	C	GLU	157	6.908	21.001	17.589	1.00	0.00
ATOM	2399	O	GLU	157	7.007	20.304	18.598	1.00	0.00
ATOM	2393	CB	GLU	157	8.998	22.170	16.909	1.00	0.00
ATOM	2394	CG	GLU	157	10.174	22.296	15.954	1.00	0.00
ATOM	2395	CD	GLU	157	9.822	23.073	14.703	1.00	0.00
ATOM	2396	OE1	GLU	157	8.759	23.731	14.689	1.00	0.00
ATOM	2397	OE2	GLU	157	10.584	23.008	13.725	1.00	0.00
ATOM	2400	H	GLU	157	7.801	22.016	14.698	1.00	0.00
ATOM	2401	HA	GLU	157	8.561	20.112	16.586	1.00	0.00
ATOM	2402	1HB	GLU	157	9.384	21.997	17.899	1.00	0.00
ATOM	2403	2HB	GLU	157	8.458	23.098	16.902	1.00	0.00
ATOM	2404	1HG	GLU	157	10.496	21.305	15.666	1.00	0.00
ATOM	2405	2HG	GLU	157	10.981	22.805	16.460	1.00	0.00
ATOM	2406	N	GLU	158	5.841	21.748	17.331	1.00	0.00
ATOM	2407	CA	GLU	158	4.709	21.790	18.248	1.00	0.00



ATOM	2413	C	GLU	158	3.937	20.480	18.208	1.00	0.00
ATOM	2414	O	GLU	158	3.449	20.008	19.230	1.00	0.00
ATOM	2408	CB	GLU	158	3.790	22.963	17.917	1.00	0.00
ATOM	2409	CG	GLU	158	4.264	24.284	18.497	1.00	0.00
ATOM	2410	CD	GLU	158	3.173	25.016	19.248	1.00	0.00
ATOM	2411	OE1	GLU	158	2.826	24.591	20.370	1.00	0.00
ATOM	2412	OE2	GLU	158	2.649	26.015	18.718	1.00	0.00
ATOM	2415	H	GLU	158	5.816	22.278	16.505	1.00	0.00
ATOM	2416	HA	GLU	158	5.102	21.927	19.244	1.00	0.00
ATOM	2417	1HB	GLU	158	2.806	22.755	18.310	1.00	0.00
ATOM	2418	2HB	GLU	158	3.726	23.067	16.844	1.00	0.00
ATOM	2419	1HG	GLU	158	4.610	24.914	17.690	1.00	0.00
ATOM	2420	2HG	GLU	158	5.080	24.092	19.177	1.00	0.00
ATOM	2421	N	ALA	159	3.851	19.882	17.031	1.00	0.00
ATOM	2422	CA	ALA	159	3.156	18.614	16.874	1.00	0.00
ATOM	2424	C	ALA	159	4.007	17.487	17.445	1.00	0.00
ATOM	2425	O	ALA	159	3.497	16.540	18.047	1.00	0.00
ATOM	2423	CB	ALA	159	2.838	18.367	15.410	1.00	0.00
ATOM	2426	H	ALA	159	4.279	20.293	16.251	1.00	0.00
ATOM	2427	HA	ALA	159	2.226	18.669	17.422	1.00	0.00
ATOM	2428	1HB	ALA	159	3.755	18.206	14.864	1.00	0.00
ATOM	2429	2HB	ALA	159	2.323	19.225	15.004	1.00	0.00
ATOM	2430	3HB	ALA	159	2.208	17.494	15.320	1.00	0.00
ATOM	2431	N	ARG	160	5.314	17.619	17.264	1.00	0.00
ATOM	2432	CA	ARG	160	6.273	16.641	17.763	1.00	0.00
ATOM	2440	C	ARG	160	6.199	16.556	19.282	1.00	0.00
ATOM	2441	O	ARG	160	6.057	15.468	19.849	1.00	0.00
ATOM	2433	CB	ARG	160	7.691	17.023	17.336	1.00	0.00
ATOM	2434	CG	ARG	160	8.219	16.214	16.163	1.00	0.00
ATOM	2435	CD	ARG	160	8.720	17.113	15.046	1.00	0.00
ATOM	2436	NE	ARG	160	9.950	17.815	15.412	1.00	0.00
ATOM	2437	CZ	ARG	160	10.573	18.692	14.625	1.00	0.00
ATOM	2438	NH1	ARG	160	10.064	19.014	13.437	1.00	0.00
ATOM	2439	NH2	ARG	160	11.699	19.259	15.039	1.00	0.00
ATOM	2442	H	ARG	160	5.643	18.408	16.783	1.00	0.00
ATOM	2443	HA	ARG	160	6.022	15.679	17.343	1.00	0.00
ATOM	2444	1HB	ARG	160	8.357	16.875	18.174	1.00	0.00
ATOM	2445	2HB	ARG	160	7.702	18.066	17.059	1.00	0.00
ATOM	2446	1HG	ARG	160	7.423	15.590	15.781	1.00	0.00
ATOM	2447	2HG	ARG	160	9.033	15.593	16.504	1.00	0.00
ATOM	2448	1HD	ARG	160	7.956	17.842	14.819	1.00	0.00
ATOM	2449	2HD	ARG	160	8.910	16.508	14.172	1.00	0.00
ATOM	2450	HE	ARG	160	10.338	17.614	16.293	1.00	0.00
ATOM	2451	1HH1	ARG	160	9.202	18.595	13.123	1.00	0.00
ATOM	2452	2HH1	ARG	160	10.532	19.677	12.849	1.00	0.00
ATOM	2453	1HH2	ARG	160	12.077	19.027	15.946	1.00	0.00
ATOM	2454	2HH2	ARG	160	12.185	19.913	14.453	1.00	0.00
ATOM	2455	N	ARG	161	6.287	17.714	19.933	1.00	0.00
ATOM	2456	CA	ARG	161	6.223	17.788	21.388	1.00	0.00
ATOM	2464	C	ARG	161	4.831	17.412	21.885	1.00	0.00
ATOM	2465	O	ARG	161	4.672	16.910	22.996	1.00	0.00
ATOM	2457	CB	ARG	161	6.596	19.195	21.872	1.00	0.00
ATOM	2458	CG	ARG	161	5.606	20.271	21.451	1.00	0.00
ATOM	2459	CD	ARG	161	6.111	21.669	21.774	1.00	0.00
ATOM	2460	NE	ARG	161	5.418	22.249	22.924	1.00	0.00
ATOM	2461	CZ	ARG	161	5.925	23.211	23.692	1.00	0.00
ATOM	2462	NH1	ARG	161	7.080	23.785	23.377	1.00	0.00
ATOM	2463	NH2	ARG	161	5.253	23.624	24.755	1.00	0.00
ATOM	2466	H	ARG	161	6.394	18.543	19.418	1.00	0.00
ATOM	2467	HA	ARG	161	6.933	17.083	21.787	1.00	0.00
ATOM	2468	1HB	ARG	161	7.567	19.454	21.474	1.00	0.00
ATOM	2469	2HB	ARG	161	6.648	19.188	22.950	1.00	0.00
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ATOM	2474	HE	ARG	161	4.530	21.884	23.148	1.00	0.00
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ATOM	2476	2HH1	ARG	161	7.460	24.516	23.962	1.00	0.00
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ATOM	2478	2HH2	ARG	161	5.639	24.334	25.357	1.00	0.00
ATOM	2479	N	LEU	162	3.823	17.655	21.054	1.00	0.00
ATOM	2480	CA	LEU	162	2.449	17.343	21.412	1.00	0.00



ATOM	2485	C	LEU	162	2.240	15.841	21.527	1.00	0.00
ATOM	2486	O	LEU	162	1.624	15.374	22.479	1.00	0.00
ATOM	2481	CB	LEU	162	1.473	17.928	20.389	1.00	0.00
ATOM	2482	CG	LEU	162	0.282	18.677	20.986	1.00	0.00
ATOM	2483	CD1	LEU	162	0.117	20.035	20.324	1.00	0.00
ATOM	2484	CD2	LEU	162	-0.990	17.853	20.844	1.00	0.00
ATOM	2487	H	LEU	162	4.009	18.058	20.180	1.00	0.00
ATOM	2488	HA	LEU	162	2.254	17.790	22.377	1.00	0.00
ATOM	2489	LHB	LEU	162	1.094	17.120	19.782	1.00	0.00
ATOM	2490	2HB	LEU	162	2.019	18.610	19.753	1.00	0.00
ATOM	2491	HG	LEU	162	0.458	18.840	22.040	1.00	0.00
ATOM	2492	1HD1	LEU	162	-0.684	20.576	20.804	1.00	0.00
ATOM	2493	2HD1	LEU	162	-0.116	19.900	19.277	1.00	0.00
ATOM	2494	3HD1	LEU	162	1.036	20.594	20.417	1.00	0.00
ATOM	2495	1HD2	LEU	162	-0.785	16.827	21.109	1.00	0.00
ATOM	2496	2HD2	LEU	162	-1.336	17.899	19.822	1.00	0.00
ATOM	2497	3HD2	LEU	162	-1.751	18.249	21.500	1.00	0.00
ATOM	2498	N	ARG	163	2.752	15.083	20.561	1.00	0.00
ATOM	2499	CA	ARG	163	2.597	13.631	20.591	1.00	0.00
ATOM	2507	C	ARG	163	3.379	13.024	21.751	1.00	0.00
ATOM	2508	O	ARG	163	2.913	12.083	22.397	1.00	0.00
ATOM	2500	CB	ARG	163	3.038	12.996	19.273	1.00	0.00
ATOM	2501	CG	ARG	163	2.419	11.625	19.033	1.00	0.00
ATOM	2502	CD	ARG	163	2.702	11.118	17.630	1.00	0.00
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ATOM	2505	NH1	ARG	163	3.439	9.466	15.464	1.00	0.00
ATOM	2506	NH2	ARG	163	5.337	8.775	16.573	1.00	0.00
ATOM	2509	H	ARG	163	3.239	15.510	19.816	1.00	0.00
ATOM	2510	HA	ARG	163	1.547	13.422	20.742	1.00	0.00
ATOM	2511	1HB	ARG	163	4.113	12.888	19.277	1.00	0.00
ATOM	2512	2HB	ARG	163	2.752	13.646	18.459	1.00	0.00
ATOM	2513	1HG	ARG	163	1.351	11.695	19.172	1.00	0.00
ATOM	2514	2HG	ARG	163	2.831	10.926	19.746	1.00	0.00
ATOM	2515	1HD	ARG	163	2.872	11.966	16.982	1.00	0.00
ATOM	2516	2HD	ARG	163	1.843	10.565	17.279	1.00	0.00
ATOM	2517	HE	ARG	163	4.456	10.236	18.386	1.00	0.00
ATOM	2518	1HH1	ARG	163	2.592	10.003	15.440	1.00	0.00
ATOM	2519	2HH1	ARG	163	3.691	8.907	14.672	1.00	0.00
ATOM	2520	1HH2	ARG	163	5.925	8.790	17.388	1.00	0.00
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ATOM	2533	1HB	GLU	164	6.910	14.382	23.869	1.00	0.00
ATOM	2534	2HB	GLU	164	6.873	14.263	22.115	1.00	0.00
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ATOM	2547	CG	ASN	166	-1.503	13.439	23.215	1.00	0.00
ATOM	2548	OD1	ASN	166	-2.346	12.635	22.828	1.00	0.00
ATOM	2549	ND2	ASN	166	-1.802	14.694	23.490	1.00	0.00
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ATOM	2553	HA	ASN	166	-0.274	13.775	25.385	1.00	0.00



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ATOM	2557	2HD2	ASN	166	-2.733	14.981	23.390	1.00	0.00
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ATOM	2578	HE3	TRP	167	3.876	7.550	27.285	1.00	0.00
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ATOM	2580	HZ3	TRP	167	5.860	7.160	28.683	1.00	0.00
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ATOM	2601	2HB	SER	169	-1.816	12.411	29.736	1.00	0.00
ATOM	2602	HG	SER	169	-0.798	14.289	29.129	1.00	0.00
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ATOM	2623	CT	ARG	171	3.768	4.610	26.279	1.00	0.00



- 1 -

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&lt;140&gt; Not yet assigned

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- 2 -

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Pro Gly Glu Gly Pro Ala Ala Asp Pro Leu His Gln Ala Met Arg Ala  
                     35                    40                    45

Ala Gly Asp Glu Phe Glu Thr Arg Phe Arg Arg Thr Phe Ser Asp Leu  
                     50                    55                    60

Ala Ala Gln Leu His Val Thr Pro Gly Ser Ala Gln Gln Arg Phe Thr  
 65                    70                    75                    80

Gln Val Ser Asp Glu Leu Phe Gln Gly Gly Pro Asn Trp Gly Arg Leu  
                     85                    90                    95

Val Ala Phe Phe Val Phe Gly Ala Ala Leu Cys Ala Glu Ser Val Asn  
                     100                    105                    110

Lys Glu Met Glu Pro Leu Val Gly Gln Val Gln Glu Trp Met Val Glu  
                     115                    120                    125

Tyr Leu Glu Thr Arg Leu Ala Asp Trp Ile His Ser Ser Gly Gly Trp  
                     130                    135                    140

Ala Glu Phe Thr Ala Leu Tyr Gly Asp Gly Ala Leu Glu Glu Ala Arg  
 145                    150                    155                    160



- 3 -

Arg	Leu	Arg	Glu	Gly	Asn	Trp	Ala	Ser	Val	Arg	Thr	Val	Leu	Thr	Gly
			165						170					175	

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			180			



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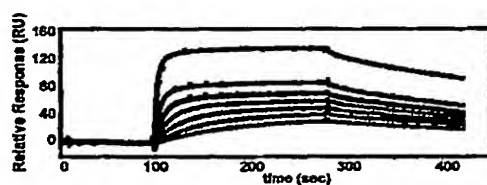
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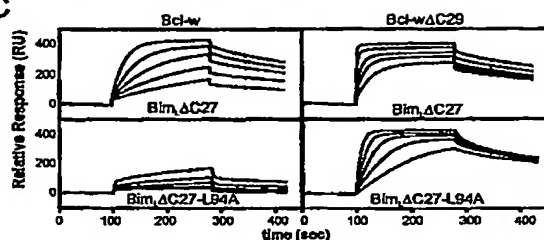
A

Immobilized	Analyte	$K_d$ (nM)	$k_a$ ( $s^{-1}$ )	$k_d$ ( $M^{-1}s^{-1}$ )
Bcl-w	Bim $\Delta$ C27	24	$4.3 \times 10^{-3}$	$1.8 \times 10^5$
Bcl-w $\Delta$ C29	Bim $\Delta$ C27	11	$6.1 \times 10^{-3}$	$5.7 \times 10^5$
Bcl-w	Bim $\Delta$ C27-L94A	1600	$2.0 \times 10^{-2}$	$1.3 \times 10^4$
Bcl-w $\Delta$ C29	Bim $\Delta$ C27-L94A	13	$2.8 \times 10^{-3}$	$2.1 \times 10^5$

B



C



D

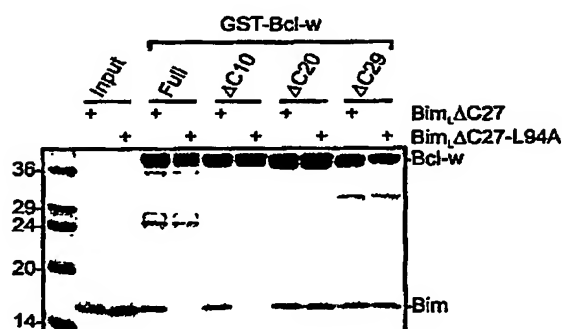


FIGURE 3



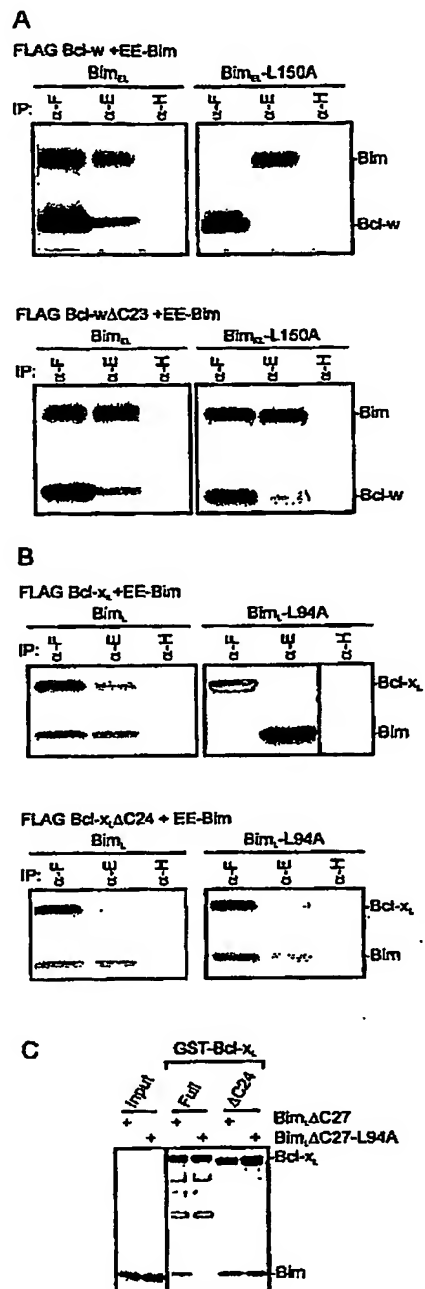


FIGURE 4



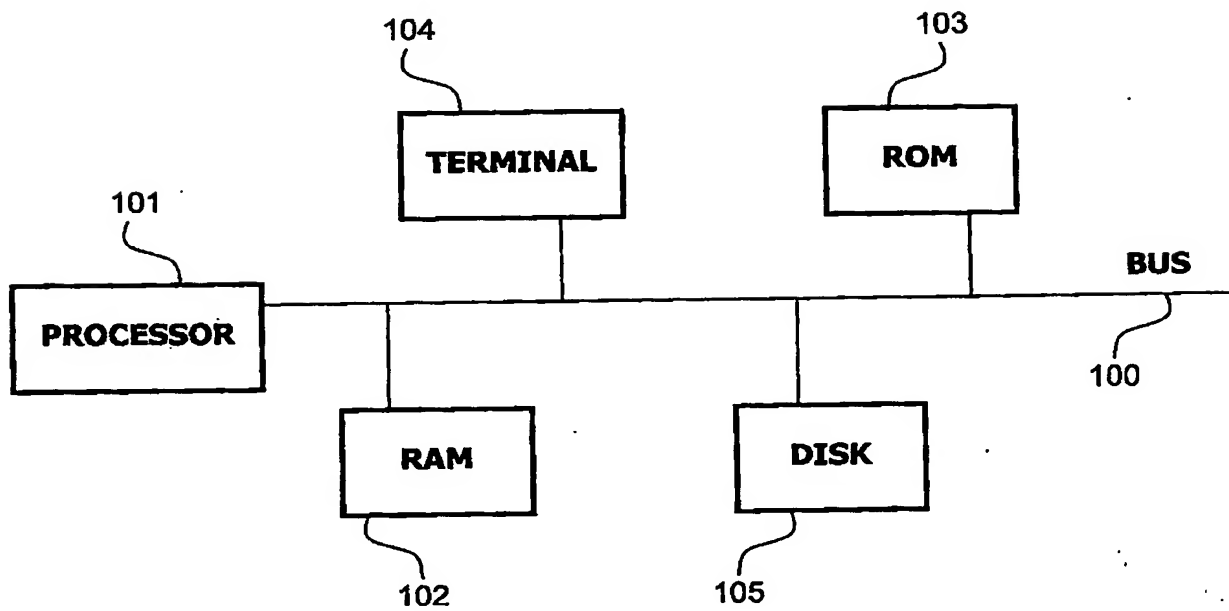


FIGURE 8



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